

SITE MAP
SCALE: 1"=1000'

CITY OF MCMINNVILLE

MCMINNVILLE MUNICIPAL AIRPORT

RUNWAY 4-22 REHABILITATION PROJECT

APRIL 2016

A.I.P. NO. 3-41-0036-016

PROJECT NO. 2014-1



VICINITY MAP
N.T.S.

LEGEND

EXISTING		PROPOSED
		CENTERLINE
		EDGE OF PAVEMENT
		SAWCUT EXISTING PAVEMENT
		NEW PAVEMENT
		SPOT ELEVATION
		CONTOUR MINOR
		CONTOUR MAJOR
		RUNWAY OBJECT FREE ZONE
		RUNWAY SAFETY AREA
		SURVEY CONTROL
		FAA OWNED EQUIPMENT
		GEOTECHNICAL TEST
		ELECTRICAL LINE
		ELECTRICAL VAULT
		JUNCTION CAN
		TAXIWAY EDGE LIGHT
		RUNWAY THRESHOLD LIGHT
		RUNWAY EDGE LIGHT - ELEVATED
		RUNWAY EDGE LIGHT - FLUSH MOUNTED
		REFLECTOR
		GUIDANCE SIGN
		OPEN GRATED MANHOLE
		CLEAN-OUT WYE
		CLEAN-OUT TEE
		AREA DRAIN/CATCH BASIN
		UNDERDRAIN (UD)
		STORM LINE (STS PIPE)
		CUT LINE
		FILL LINE
		DUCT BANK

SHEET INDEX


SHT NO.	DWG NO.	TITLE	SHT NO.	DWG NO.	TITLE	SHT NO.	DWG NO.	TITLE
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13	(C-3)	DEMOLITION PLAN STA 38+00 TO STA 58+00	53	(C-43)	STORM DRAINAGE PLAN STA 54+00 TO STA 66+00			
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19	(C-9)	RUNWAY 4-22 PLAN AND PROFILE STA 38+00 TO STA 47+00	59	(C-49)	PAVEMENT MARKING PLAN STA 45+50 TO STA 66+00			
20	(C-10)	RUNWAY 4-22 PLAN AND PROFILE STA 47+00 TO STA 57+50	60	(C-50)	PAVEMENT MARKING DETAILS I			
21	(C-11)	RUNWAY 4-22 PLAN AND PROFILE STA 57+50 TO STA 66+50	61	(C-51)	PAVEMENT MARKING DETAILS II			
22	(C-12)	RUNWAY 17-35 PLAN AND PROFILE STA 52+50 to STA 55+82	62	(C-52)	PAVEMENT MARKING DETAILS III			
23	(C-13)	TAXIWAY A4 PLAN AND PROFILE STA 1+00 TO STA 7+00						
24	(C-14)	TAXIWAY A3 PLAN AND PROFILE STA 1+00 TO STA 8+00	63	(E-1)	LIGHTING AND GUIDANCE SIGN PLAN RUNWAY 4-22 STA 9+00 TO STA 29+50			
25	(C-15)	TAXIWAY A2 PLAN AND PROFILE STA 1+00 TO STA 6+00	64	(E-2)	LIGHTING AND GUIDANCE SIGN PLAN RUNWAY 4-22 STA 29+50 TO STA 50+00			
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29	(C-19)	RUNWAY 4-22 PAVING AND GRADING PLAN STA 18+50 TO STA 28+00	68	(E-6)	LIGHTING AND GUIDANCE SIGN PLAN TAXIWAY A1 AND RUNWAY 17-35			
30	(C-20)	RUNWAY 4-22 PAVING AND GRADING PLAN STA 28+00 TO STA 38+00	69	(E-7)	LIGHTING DETAILS I			
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38	(C-28)	TAXIWAY A1 INTERSECTION PAVING PLAN	77	(E-15)	ELECTRICAL ONE-LINE DIAGRAM AND ELECTRICAL ROOM LAYOUT			
39	(C-29)	RUNWAY 4-22 INTERSECTION PAVING PLAN STA 59+50 TO STA 66+50	78	(E-16)	RUNWAY LIGHTING LOOP DIAGRAM			

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PORTLAND, OR 97239
503.419.2130
503.639.2710 FAX

DESIGNED BY:
BFC

DRAWN BY:
SLK

CHECKED BY:
JNR

SCALE:
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DATE:
APRIL 2016

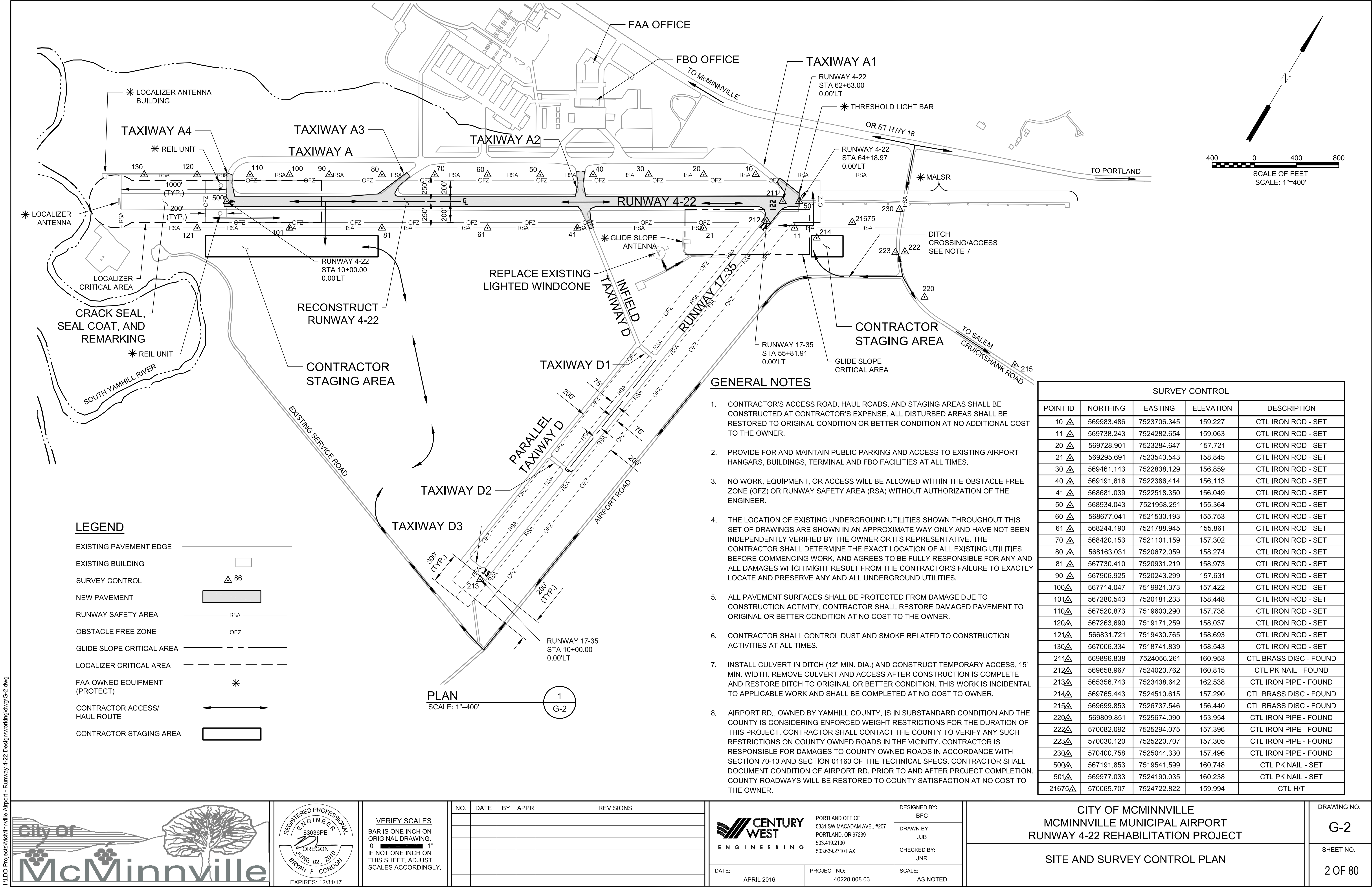
PROJECT NO:
40228.008.03

CITY OF MCMINNVILLE
MCMINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

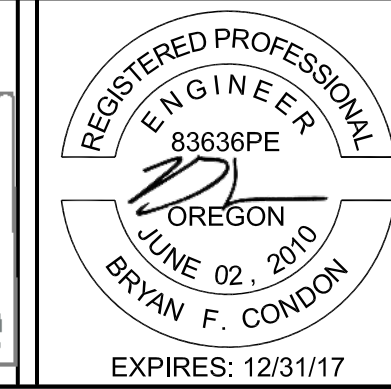
COVER SHEET

DRAWING NO.
G-1

SHEET NO.
1 OF 80



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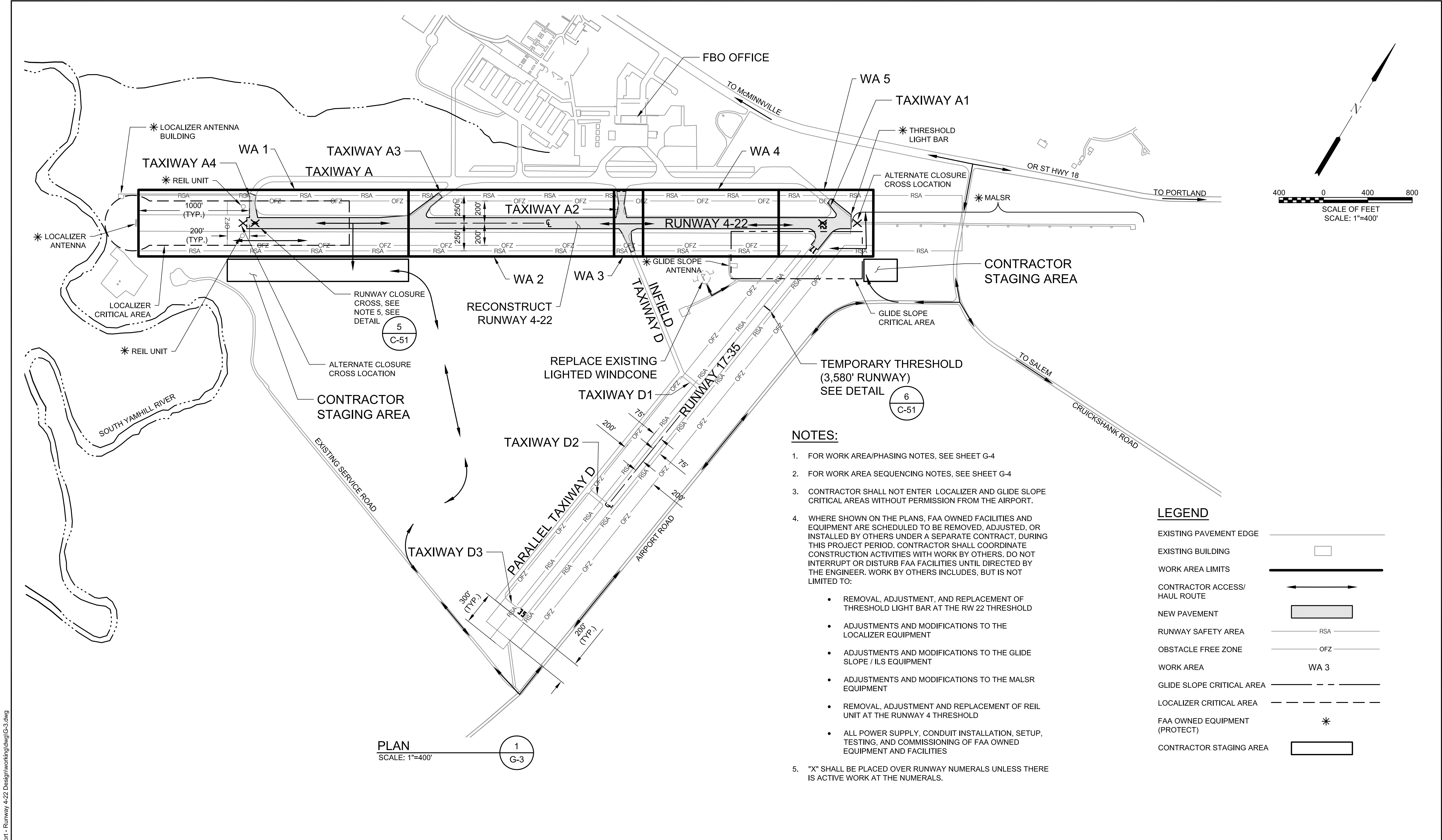
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CITY OF MCMINNVILLE
MCMINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

SITE AND SURVEY CONTROL PLAN

DRAWING NO.
G-2

SHEET NO.
2 OF 80

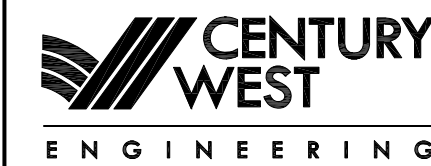


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DATE: APRIL 2016
PROJECT NO: 40228.008.03

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CITY OF MCMINNVILLE
MCMINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

SITE WORK AREA AND SAFETY PLAN INDEX SHEET

DRAWING NO. G-3
SHEET NO. 3 OF 80

GENERAL WORK AREA NOTES:

1.

THE CONTRACTOR SHALL BE RESTRICTED TO USE THE ENTRANCE AND HAULING ROUTES SHOWN ON THE DRAWINGS. FOLLOW AIRPORT AND FAA SAFETY PROCEDURES WHEN MOVING EQUIPMENT OR PERSONNEL. NO PERSONAL VEHICLES SHALL BE ALLOWED OUTSIDE OF THE STAGING AREA. THE AIRPORT MAY IMMEDIATELY REMOVE ANY PERSONNEL AND EQUIPMENT FROM THE SITE IN VIOLATION OF AIRPORT SAFETY AND SECURITY PROCEDURES.
2.

AVOID IMPACTS TO AIRFIELD LIGHTING AND PAVEMENTS OUTSIDE WORK AREA. PROVIDE TEMPORARY CONNECTIONS TO KEEP ELECTRICAL SYSTEMS ENERGIZED OUTSIDE OF THE WORK AREA AT NO COST TO AIRPORT.
3.

DISENGAGE LIGHTING CIRCUITS, DARKEN LIGHT FIXTURES, & COVER GUIDANCE SIGNS AS DIRECTED BY THE AIRPORT TO PREVENT AIRCRAFT FROM TAXIING TOWARDS CLOSED WORK AREAS.
4.

LIMIT EQUIPMENT HEIGHT TO 10 FEET UNLESS OTHERWISE APPROVED BY THE ENGINEER.
5.

LIMIT STOCK PILES TO 10 FEET IN HEIGHT AND AT LEAST 400 FEET FROM ANY RUNWAY AND 65.5 FEET FROM TAXIWAY CENTERLINE.
6.

IN THE EVENT OF AN EMERGENCY, MOVE ALL EQUIPMENT AND PERSONNEL TO THE CONTRACTOR'S STAGING AREA UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
7.

ACCESS TO ANY WORK AREA MUST BE AUTHORIZED BY THE ENGINEER PRIOR TO WORK IN THAT AREA. NOTIFY THE ENGINEER A MINIMUM OF 72 HOURS PRIOR TO BEGINNING WORK IN ANY AREA.
8.

PLACE CLOSURE CROSSES (X's) OVER RUNWAY NUMERALS DURING RUNWAY CLOSURES AS DIRECTED BY THE ENGINEER. SEE SECTION 01300 OF THE TECHNICAL SPECIFICATIONS.
9.

ANY WORK WITHIN 250 FEET OF THE RUNWAY 4-22 CENTERLINE OR WITHIN 1000 FEET OF RUNWAY END WILL REQUIRE A RUNWAY CLOSURE.
10.

ANY WORK WITHIN 200 FEET OF THE RUNWAY 17-35 CENTERLINE OR WITHIN 300 FEET OF THE RUNWAY END WILL REQUIRE A RUNWAY CLOSURE.
11.

PLACE LOW LEVEL BARRICADES, BARRICADES, SAFETY FENCE, AND TUBULAR MARKERS AS SHOWN AND DESCRIBED IN SECTION 01300 OF THE SPECIFICATIONS.
12.

ONE RUNWAY SHALL BE OPEN AT ALL TIMES.
13.

RUNWAY CLOSURES AND NAVAID WORK WILL REQUIRE THE SHUTDOWN OF AIRPORT NAVAIDS AND FAA OWNED FACILITIES. THE CONTRACTOR IS REQUIRED TO NOTIFY THE ENGINEER OF ANY CLOSURE 45 CALENDAR DAYS IN ADVANCE OF THE CLOSURE.
14.

WHILE WORKING IN ANY AREA, THE CONTRACTOR SHALL HAVE AN AIRPORT RADIO CAPABLE OF MONITORING THE AIRPORT UNICOM FREQUENCY (123.00).
15.

FOR ADDITIONAL REQUIREMENTS, REFER TO SECTION 01330, AIRPORT SAFETY, IN THE TECHNICAL SPECIFICATIONS.
16.

WHERE SHOWN ON THE PLANS, FAA OWNED FACILITIES AND EQUIPMENT ARE SCHEDULED TO BE REMOVED, ADJUSTED, OR INSTALLED BY OTHERS UNDER A SEPARATE CONTRACT, DURING THIS PROJECT PERIOD. CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH WORK BY OTHERS. DO NOT INTERRUPT OR DISTURB FAA FACILITIES UNTIL DIRECTED BY THE ENGINEER. WORK BY OTHERS INCLUDES, BUT IS NOT LIMITED TO:

•

REMOVAL, ADJUSTMENT, AND REPLACEMENT OF THRESHOLD LIGHT BAR AT THE RW 22 THRESHOLD

•

ADJUSTMENTS AND MODIFICATIONS TO THE LOCALIZER EQUIPMENT

•

ADJUSTMENTS AND MODIFICATIONS TO THE GLIDE SLOPE / ILS EQUIPMENT

•

ADJUSTMENT AND MODIFICATIONS TO THE MALSR EQUIPMENT

•

REMOVAL, ADJUSTMENT AND REPLACEMENT OR REIL UNIT AT THE RUNWAY 4 THRESHOLD

•

ALL POWER SUPPLY, CONDUIT INSTALLATION, SETUP, TESTING, AND COMMISSIONING OF FAA OWNED EQUIPMENT AND FACILITIES.
17.

NO WORK IS ALLOWED DURING THE THREE DAY AIRPORT AIRSHOW. THE DATES OF THE AIRSHOW ARE YET TO BE DETERMINED BY THE AIRPORT.

WORK IN SAFETY AREAS AND OBJECT FREE AREAS:

1.

NO WORK IS ALLOWED IN ACTIVE RUNWAY AND TAXIWAY SAFETY AREAS. RUNWAY SAFETY AREA (RSA) AND TAXIWAY SAFETY AREA (TSA) ARE DEFINED AS AREAS THAT SHALL BE CLEARED AND GRADED AND HAVE NO RUTS, HUMPS, DEPRESSIONS, OR OTHER SURFACE VARIATIONS. THE MAXIMUM SLOPE ANYWHERE WITHIN A RUNWAY OR TAXIWAY SAFETY AREA SHALL BE 3%. IN TRANSITIONS FROM PAVED TO UNPAVED AREAS, A 3 INCH VERTICAL DROP IS ALLOWED. THE RUNWAY AND TAXIWAY SAFETY AREAS SHALL BE MAINTAINED AT ALL TIMES WHEN THE RUNWAY AND TAXIWAY IS OPEN TO AIR TRAFFIC. PERSONNEL, EQUIPMENT, OR MATERIAL WITHIN A RUNWAY SAFETY AREA AT ANY TIME REQUIRES A CLOSURE. SAFETY AREAS THAT ARE CLOSED FOR CONSTRUCTION MUST MEET THESE CRITERIA PRIOR TO REOPENING.
2.

THE CONTRACTOR SHALL ANTICIPATE THE CONSTRUCTION OF TEMPORARY FILLS, COMPACTION, AND GRADING TO MEET THE REQUIREMENTS OF "WORK IN SAFETY AREAS AND OBJECT FREE AREAS", PRIOR TO REOPENING RUNWAYS AND TAXIWAYS. THIS WORK IS CONSIDERED INCIDENTAL TO VARIOUS WORK ITEMS AND SEPARATE PAYMENT WILL NOT BE MADE.
3.

CONTRACTOR SHALL NOT ENTER ANY ACTIVE RSA OR TSA WITHOUT AUTHORIZATION FROM THE AIRPORT. ALL EQUIPMENT, TOOLS, AND MATERIALS SHALL BE MOVED TO STAGING AREAS PRIOR TO REOPENING A RUNWAY OR TAXIWAY.
4.

SAFETY AREA LIMITS

TAXIWAY

- 39.5' FROM C

RUNWAY 17-35

- 75' FROM C; 300' FROM THRESHOLD

RUNWAY 4-22

- 250' FROM C; 1000' FROM THRESHOLD
5.

RUNWAY AND TAXIWAY OBJECT FREE ZONES ARE DEFINED AS AREAS THAT SHALL BE CLEAR OF FIXED OR MOVABLE OBJECTS. EQUIPMENT NOT IN USE, AND MATERIAL STOCKPILES AND STORAGE SHALL BE PLACED AT LEAST 400 FEET FROM ANY RUNWAY CENTERLINE. NO WORK MAY OCCUR IN TAXIWAY OBJECT FREE ZONES UNLESS THE TAXIWAY IS CLOSED TO AIRCRAFT TRAFFIC. NO STORAGE OF EQUIPMENT, MATERIALS OR STOCKPILES IS ALLOWED WITHIN TAXIWAY OBJECT FREE ZONES.
6.

OBJECT FREE ZONE LIMITS

RUNWAY 17-35

- 200' FROM C

RUNWAY 4-22

- 200' FROM C

TAXIWAYS

- 65.5' FROM C
7.

RUNWAY AND TAXIWAY SAFETY AREA AND RUNWAY AND TAXIWAY OBJECT FREE ZONE CRITERIA MUST BOTH BE MET PRIOR TO OPENING AN IMPACTED RUNWAY OR TAXIWAY.

GENERAL WORK SCHEDULE NOTES:

1.

A 150 CALENDAR DAY PERIOD IS ALLOWED FOR ALL CONTRACT WORK ASSOCIATED WITH THE PROJECT, INCLUDING 1 COAT OF TEMPORARY RUNWAY MARKINGS (WITH GLASS BEADS) FOR EACH RUNWAY. BOTH RUNWAYS SHALL BE OPEN AND USABLE AT THE END OF THE 150 CALENDAR DAY PERIOD.
2.

WORK EXEMPT FROM COMPLETION WITHIN THE 150 CALENDAR DAY PERIOD INCLUDES FINAL APPLICATION OF PAINTED MARKINGS ON NEW PAVEMENT.
3.

WITHIN THE 150 CALENDAR DAY PERIOD, ONE PERIOD OF 45 CONTINUOUS CALENDAR DAYS IS ALLOWED FOR WORK AREA 5. THE FULL LENGTH OF RUNWAY 17-35 SHALL BE OPEN AND USABLE AT THE END OF THE 45 CALENDAR DAY PERIOD.
4.

AT ANY TIME DURING THE 150 CALENDAR DAY PERIOD NIGHT TIME WORK IS ALLOWED AT THE CONTRACTOR'S OPTION.

SEQUENCING AND PHASING NOTES:

1.

COORDINATE WORK AREA CLOSURES WITH THE AIRPORT TO ENSURE ACCESS AS NEEDED TO MAINTAIN AIRPORT OPERATIONS, INCLUDING PROVIDING FOR AND MAINTAINING ACCESS TO THE FOLLOWING:

•

ACCESS TO THE APRON AREA

•

ACCESS TO THE FBO RAMP
2.

WORK IN WA 1, 2, 3, 4, AND 5 REQUIRES THE CLOSURE OF RW 4-22.
3.

WORK IN WA 5 REQUIRES A SHORTENED RW 17-35, AND USE OF A TEMPORARY THRESHOLD FOR THE RW 17 THRESHOLD (SEE C-51). RW 17 NUMERAL MARKING TO BE COVERED (SEE C-4) AND THRESHOLD BAR/ARROW HEADS TO BE ELIMINATED AT THE TIME OF RW 17 THRESHOLD DISPLACEMENT.
4.

WORK IN WA 3 AND WA 5 MAY NOT OCCUR CONCURRENTLY.
5.

ALL WORK, MEN AND EQUIPMENT WITHIN WA 2, 3, AND 4 MUST REMAIN WITHIN EXISTING PAVEMENT LIMITS PRIOR TO AUGUST 15.
6.

WORK WITHIN WA 5 MAY NOT BEGIN UNTIL AUGUST 15.

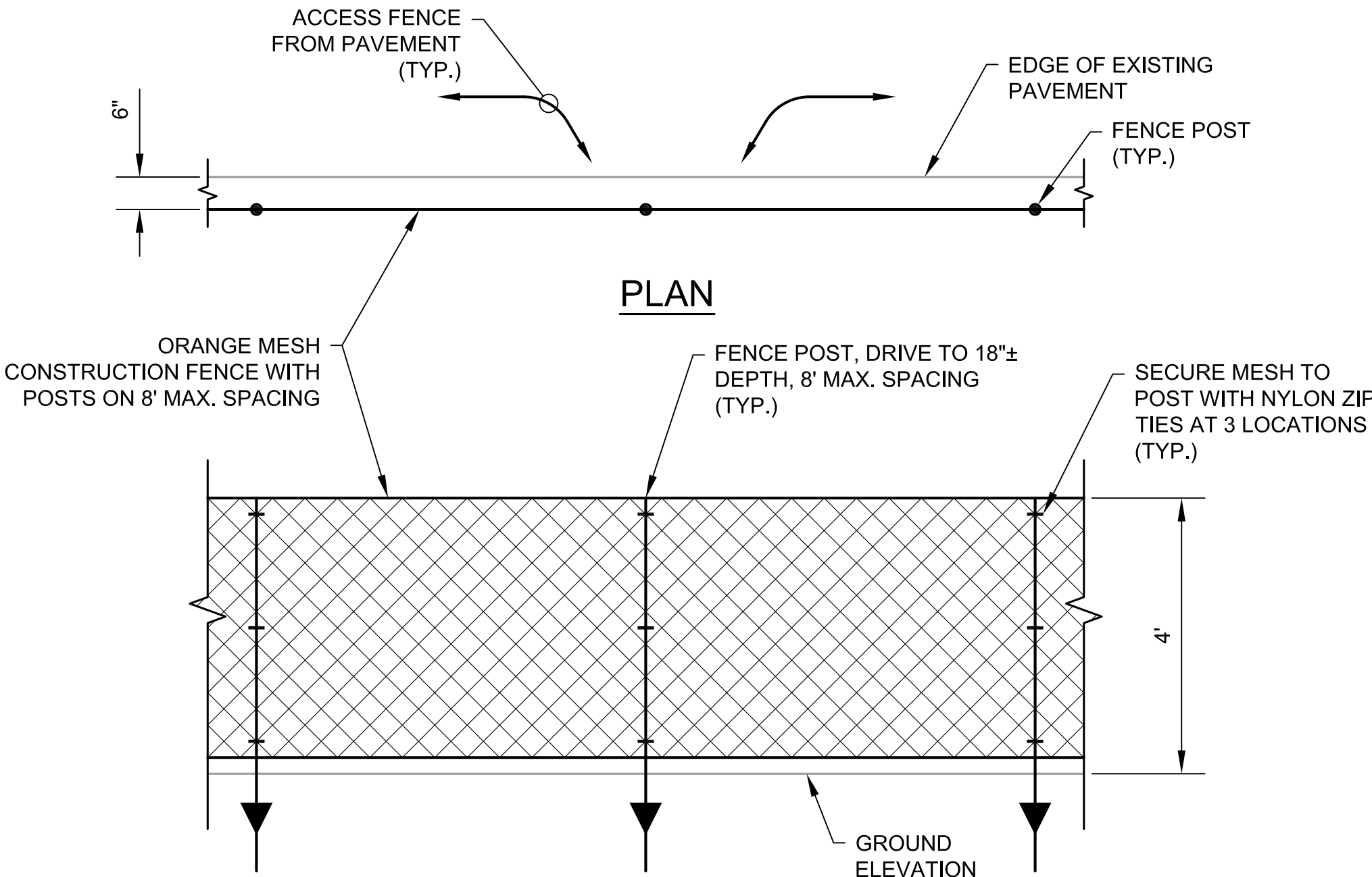
WINDCONE PHASING, ACCESS, AND SEQUENCING NOTES:

1.

COORDINATE ACCESS TO WINDCONE THROUGH THE ENGINEER. ESCORT OR PERMISSION FROM AIRPORT IS REQUIRED PRIOR TO ACCESS TO THIS WORK AREA.
2.

THE WINDCONE SHALL BE FULLY OPERATIONAL FOR THE DURATION OF THE PROJECT EXCEPT FOR 10 CALENDAR DAYS ALLOWED FOR WINDCONE REPLACEMENT.
3.

CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 72 HOURS PRIOR TO WINDCONE SHUTDOWN.



NOTES:

1.

INSTALL SAFETY ORANGE MESH CONSTRUCTION FENCE, PER THE PLANS, AT THE COMMENCEMENT OF THE PROJECT. FENCE TO BE MAINTAINED AND IN PLACE UNTIL AUGUST 15.
2.

CONSTRUCT FENCE FROM EXISTING PAVEMENT SIDE, DO NOT APPROACH OR PERFORM FENCE WORK FROM SHOULDER SIDE.
3.

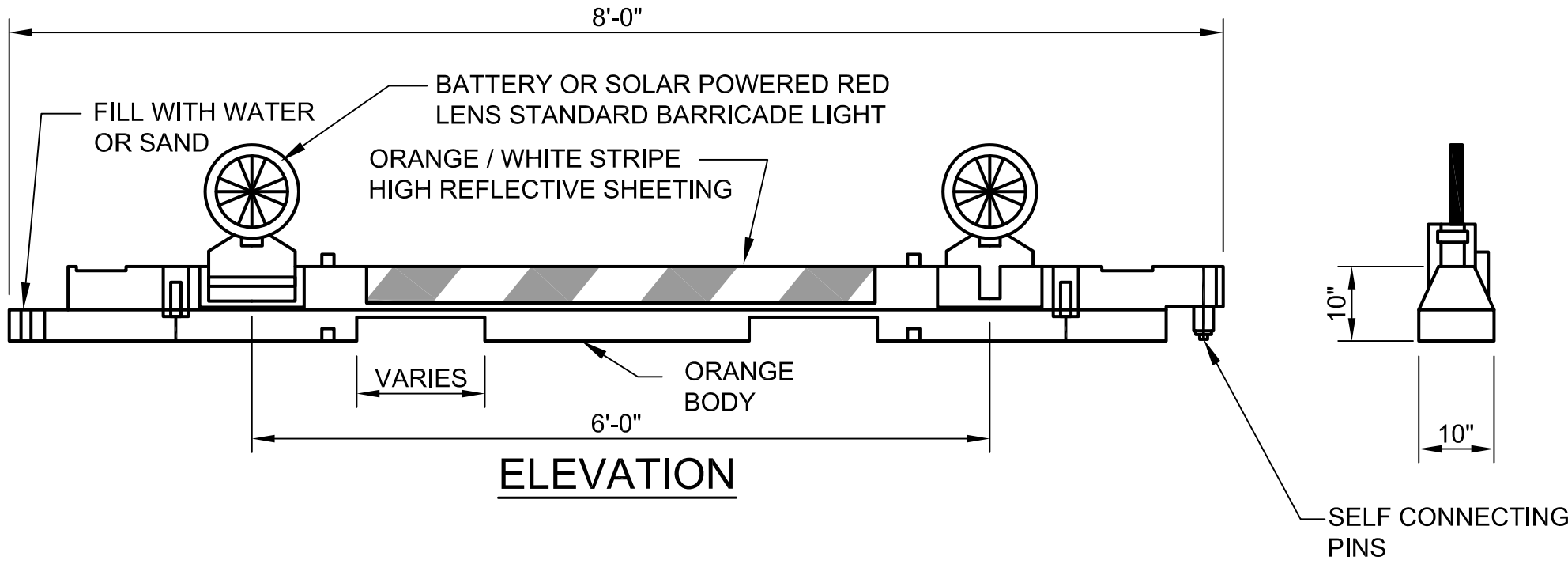
BEGIN FENCE WORK ONLY AFTER RECEIVING PERMISSION FROM THE ENGINEER AND AFTER THE OWNER HAS COMPLETED A WILDLIFE SURVEY.
4.

USE CAUTION DURING FENCE CONSTRUCTION. NOTIFY THE ENGINEER IMMEDIATELY IF WILDLIFE IS ENCOUNTERED. STOP FENCE WORK UNTIL DIRECTED TO RESUME BY THE ENGINEER.

SAFETY ORANGE, MESH CONSTRUCTION FENCE

N.T.S.

1
G-4



NOTES:

1.

PLACE BARRICADE PER THE PLANS.
2.

BARRICADES SHALL BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING, FILLING, EMPTYING, MOVING, AND PROTECTING BARRICADES THROUGHOUT THE DURATION OF THE PROJECT.
3.

IF CONTRACTOR USES SANDBAGS TO ANCHOR BARRICADES, USE "DOUBLE BAGS" OR OTHER MEASURES TO PREVENT SAND FROM LEAVING OR MIGRATING THROUGH BAG FABRIC.

LOW LEVEL BARRICADE DETAIL

N.T.S.

2
G-4

I:\DD Projects\McMinnville Airport - Runway 4-22 Design\working\dwg\G-4.dwg

city of

McMinnville

REGISTERED PROFESSIONAL
ENGINEER
83636PE
OREGON
JUNE 02, 2010
BRYAN F. CONDON
EXPIRES: 12/31/17

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NO.	DATE	BY	APPR	REVISIONS

CENTURY WEST

ENGINEERING

DATE: APRIL 2016

PORTLAND OFFICE
5331 SW MACADAM AVE., #207
PORTLAND, OR 97239
503.419.2130
503.639.2710 FAX

PROJECT NO:
40228.008.03

DESIGNED BY:
BFC

DRAWN BY:
JJB

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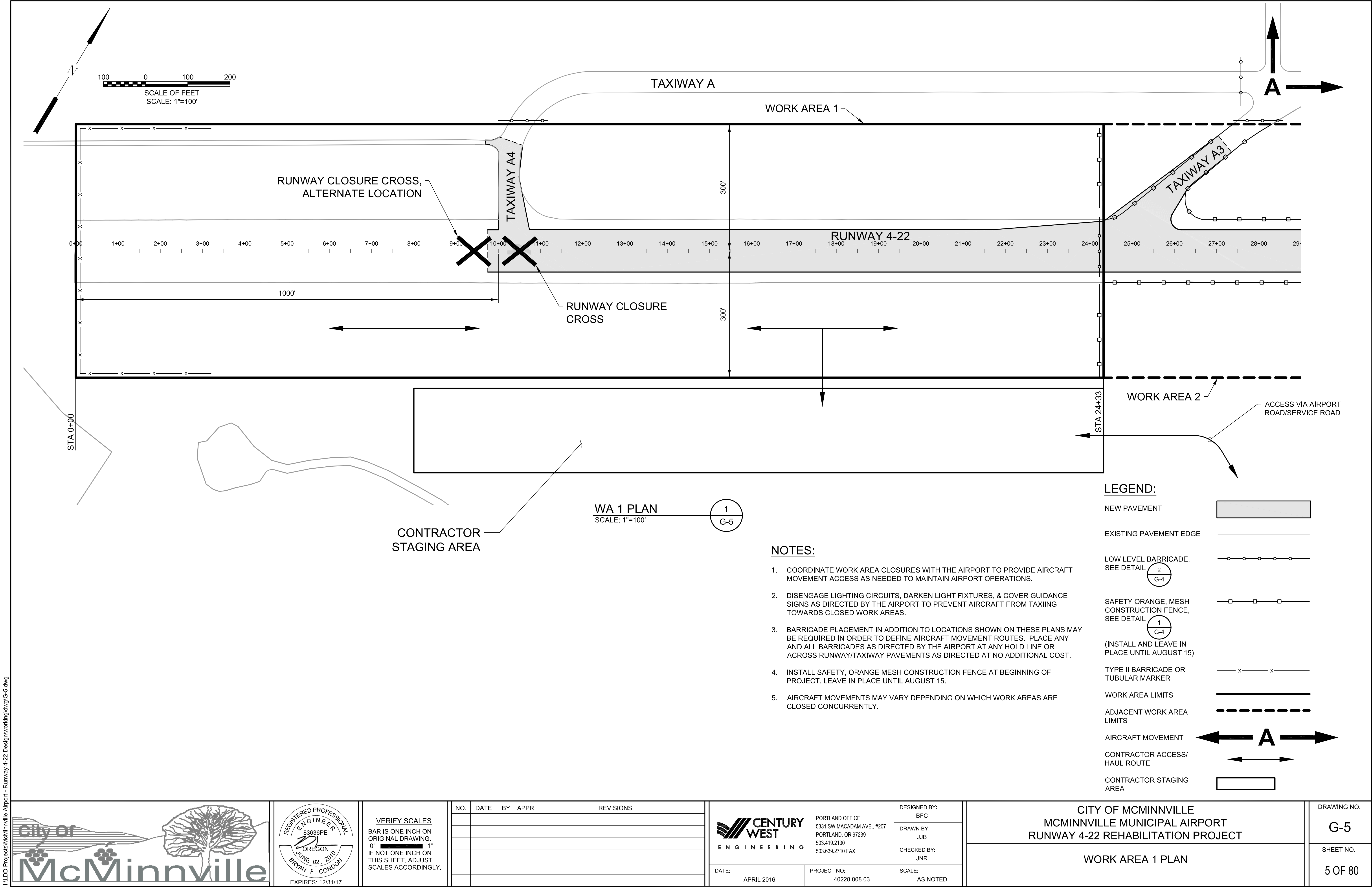
SCALE:
AS NOTED

CITY OF MCMINNVILLE
MCMINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

WORK AREA AND SAFETY PLAN
NOTES AND DETAILS

DRAWING NO.
G-4

SHEET NO.
4 OF 80



CONTRACTOR
STAGING AREA

WA 1 PLAN
SCALE: 1"=100'

1
G-5

NOTES:

- COORDINATE WORK AREA CLOSURES WITH THE AIRPORT TO PROVIDE AIRCRAFT MOVEMENT ACCESS AS NEEDED TO MAINTAIN AIRPORT OPERATIONS.
- DISENGAGE LIGHTING CIRCUITS, DARKEN LIGHT FIXTURES, & COVER GUIDANCE SIGNS AS DIRECTED BY THE AIRPORT TO PREVENT AIRCRAFT FROM TAXIING TOWARDS CLOSED WORK AREAS.
- BARRICADE PLACEMENT IN ADDITION TO LOCATIONS SHOWN ON THESE PLANS MAY BE REQUIRED IN ORDER TO DEFINE AIRCRAFT MOVEMENT ROUTES. PLACE ANY AND ALL BARRICADES AS DIRECTED BY THE AIRPORT AT ANY HOLD LINE OR ACROSS RUNWAY/TAXIWAY PAVEMENTS AS DIRECTED AT NO ADDITIONAL COST.
- INSTALL SAFETY, ORANGE MESH CONSTRUCTION FENCE AT BEGINNING OF PROJECT. LEAVE IN PLACE UNTIL AUGUST 15.
- AIRCRAFT MOVEMENTS MAY VARY DEPENDING ON WHICH WORK AREAS ARE CLOSED CONCURRENTLY.

LEGEND:

- NEW PAVEMENT
- EXISTING PAVEMENT EDGE
- LOW LEVEL BARRICADE, SEE DETAIL

2
G-4
- SAFETY ORANGE, MESH CONSTRUCTION FENCE, SEE DETAIL

1
G-4

(INSTALL AND LEAVE IN PLACE UNTIL AUGUST 15)
- TYPE II BARRICADE OR TUBULAR MARKER

— x — x —
- WORK AREA LIMITS

—————
- ADJACENT WORK AREA LIMITS

- AIRCRAFT MOVEMENT

← A →
- CONTRACTOR ACCESS/HAUL ROUTE

↔
- CONTRACTOR STAGING AREA



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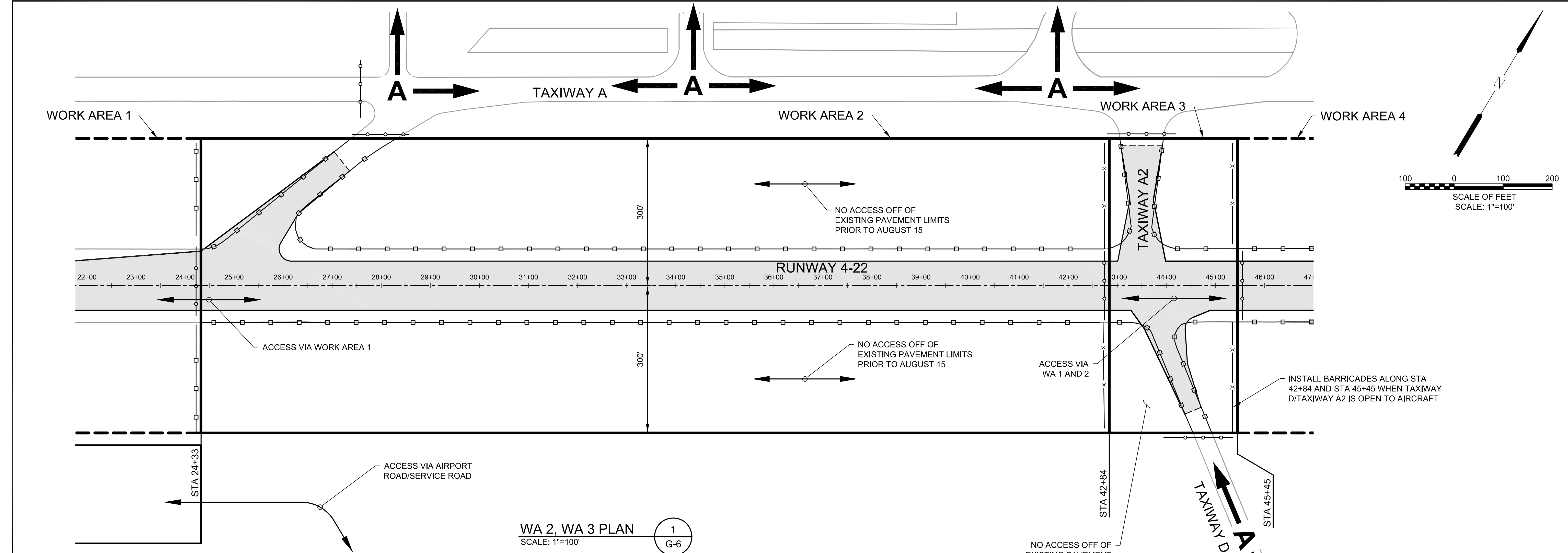
DATE: APRIL 2016
PROJECT NO: 40228.008.03

DESIGNED BY: BFC
DRAWN BY: JJB
CHECKED BY: JNR
SCALE: AS NOTED

CITY OF MCMINNVILLE
MCMINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

WORK AREA 1 PLAN

DRAWING NO. G-5
SHEET NO. 5 OF 80



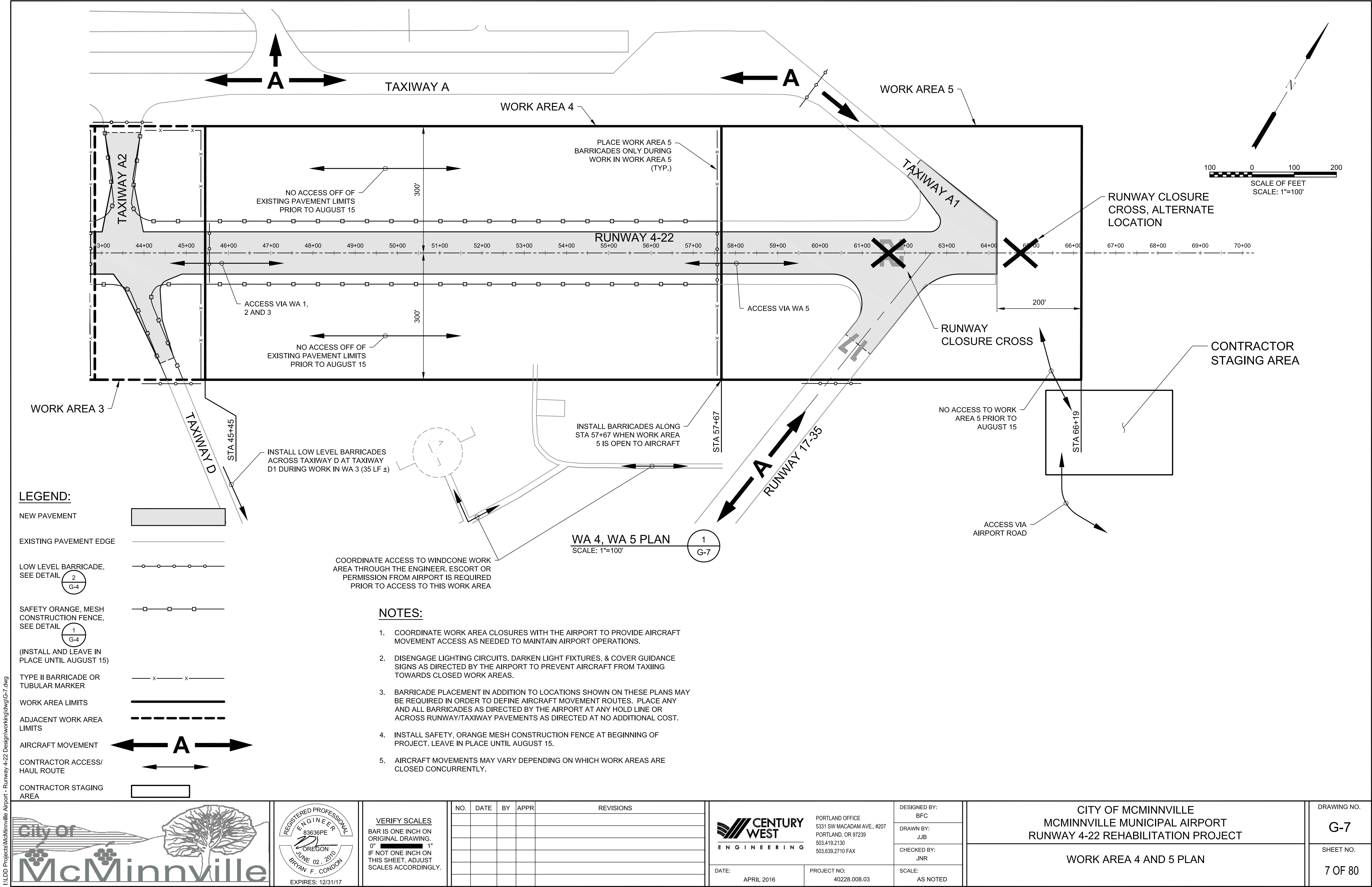
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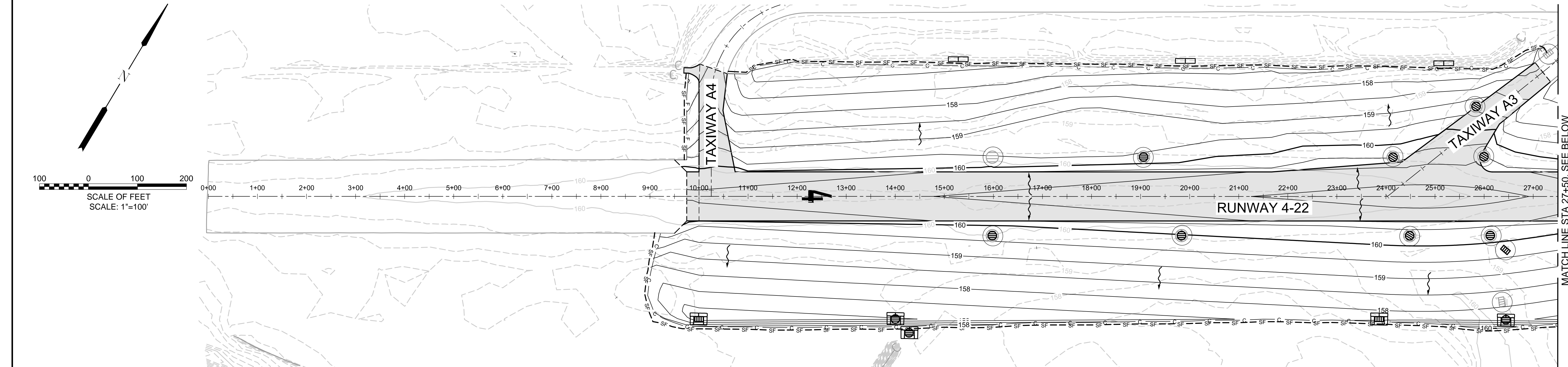
LEGEND:

NEW PAVEMENT	
EXISTING PAVEMENT EDGE	
LOW LEVEL BARRICADE, SEE DETAIL	
SAFETY ORANGE, MESH CONSTRUCTION FENCE, SEE DETAIL	
(INSTALL AND LEAVE IN PLACE UNTIL AUGUST 15)	
TYPE II BARRICADE OR TUBULAR MARKER	
WORK AREA LIMITS	
ADJACENT WORK AREA LIMITS	
AIRCRAFT MOVEMENT	
CONTRACTOR ACCESS/HAUL ROUTE	
CONTRACTOR STAGING AREA	

- NOTES:**
- COORDINATE WORK AREA CLOSURES WITH THE AIRPORT TO PROVIDE AIRCRAFT MOVEMENT ACCESS AS NEEDED TO MAINTAIN AIRPORT OPERATIONS.
 - DISENGAGE LIGHTING CIRCUITS, DARKEN LIGHT FIXTURES, & COVER GUIDANCE SIGNS AS DIRECTED BY THE AIRPORT TO PREVENT AIRCRAFT FROM TAXIING TOWARDS CLOSED WORK AREAS.
 - BARRICADE PLACEMENT IN ADDITION TO LOCATIONS SHOWN ON THESE PLANS MAY BE REQUIRED IN ORDER TO DEFINE AIRCRAFT MOVEMENT ROUTES. PLACE ANY AND ALL BARRICADES AS DIRECTED BY THE AIRPORT AT ANY HOLD LINE OR ACROSS RUNWAY/TAXIWAY PAVEMENTS AS DIRECTED AT NO ADDITIONAL COST.
 - INSTALL SAFETY, ORANGE MESH CONSTRUCTION FENCE AT BEGINNING OF PROJECT. LEAVE IN PLACE UNTIL AUGUST 15.
 - AIRCRAFT MOVEMENTS MAY VARY DEPENDING ON WHICH WORK AREAS ARE CLOSED CONCURRENTLY.

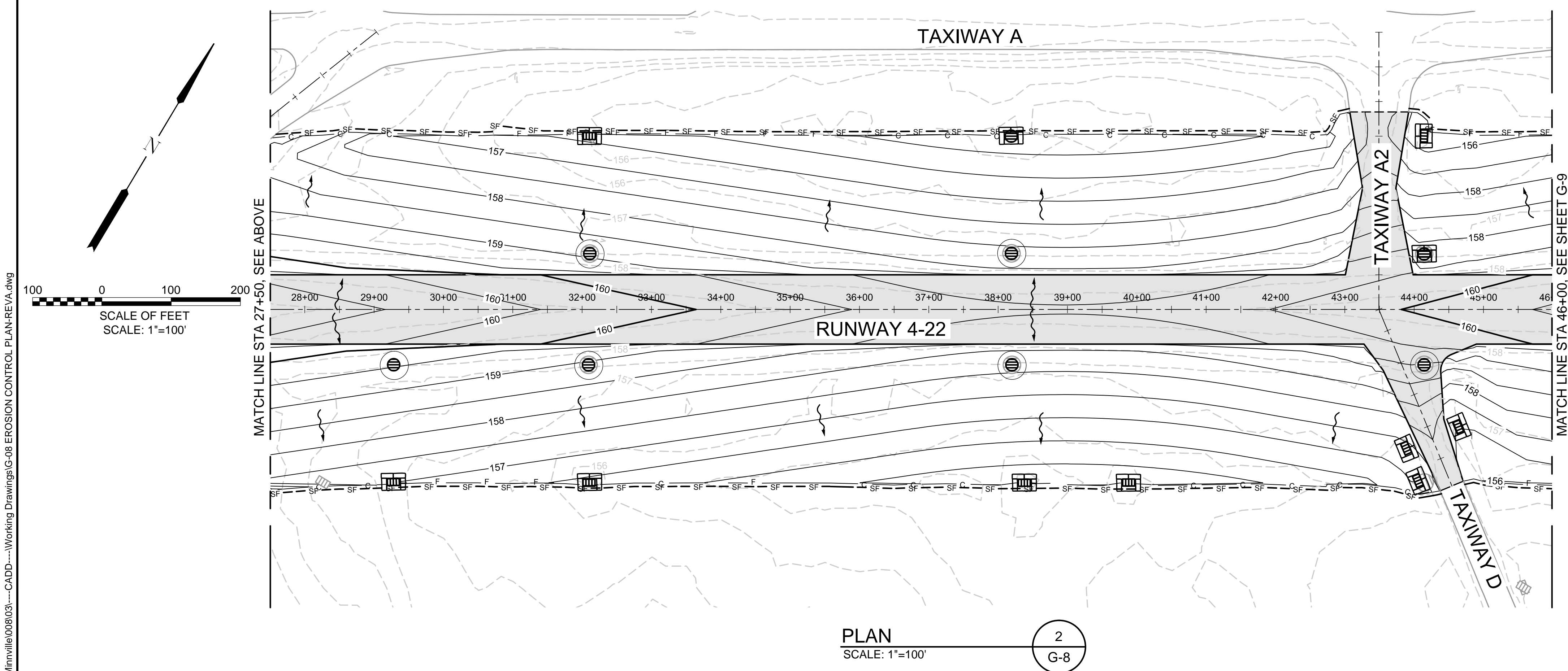
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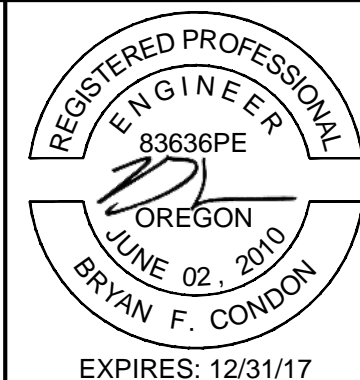
1. FOR EROSION CONTROL NOTES AND DETAILS, SEE SHEET G-10.



LEGEND:

- BIOFILTER INLET PROTECTION PER **1 G-10**
- BIOFILTER BAG PER **2 G-10**
- SEDIMENT FENCE PER **3 G-10**
- FABRIC INLET PROTECTION, PER **4 G-10**
- FLOW DIRECTION (SURFACE)
- NEW PAVEMENT
- EXISTING PAVEMENT
- EXISTING INDEX CONTOUR
- EXISTING 0.5' CONTOUR
- NEW INDEX CONTOURS
- NEW 0.5' CONTOURS
- SAWCUT EXISTING PAVEMENT
- CUT LINE
- FILL LINE
- STORM MANHOLE
- STORM CATCH BASIN
- EXISTING STORM MANHOLE
- EXISTING AREA DRAIN



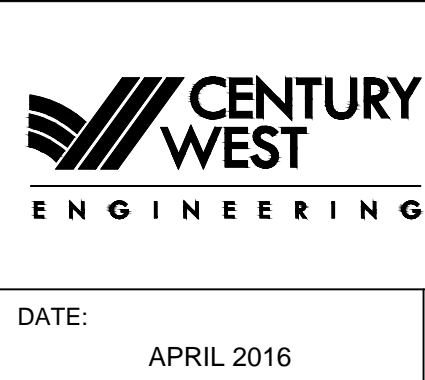


VERIFY SCALES

BAR IS ONE INCH ON ORIGINAL DRAWING.

0" = 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

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PORTLAND OFFICE
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PORTLAND, OR 97239
503.419.2130
503.639.2710 FAX

DESIGNED BY: BFC

DRAWN BY: SLK

CHECKED BY: JNR

SCALE: AS NOTED

DATE: APRIL 2016

PROJECT NO: 40228.008.03

CITY OF MCMINNVILLE

MCMINNVILLE MUNICIPAL AIRPORT

RUNWAY 4-22 REHABILITATION PROJECT

RUNWAY 4-22 EROSION CONTROL PLAN

STA 0+00 TO STA 46+00

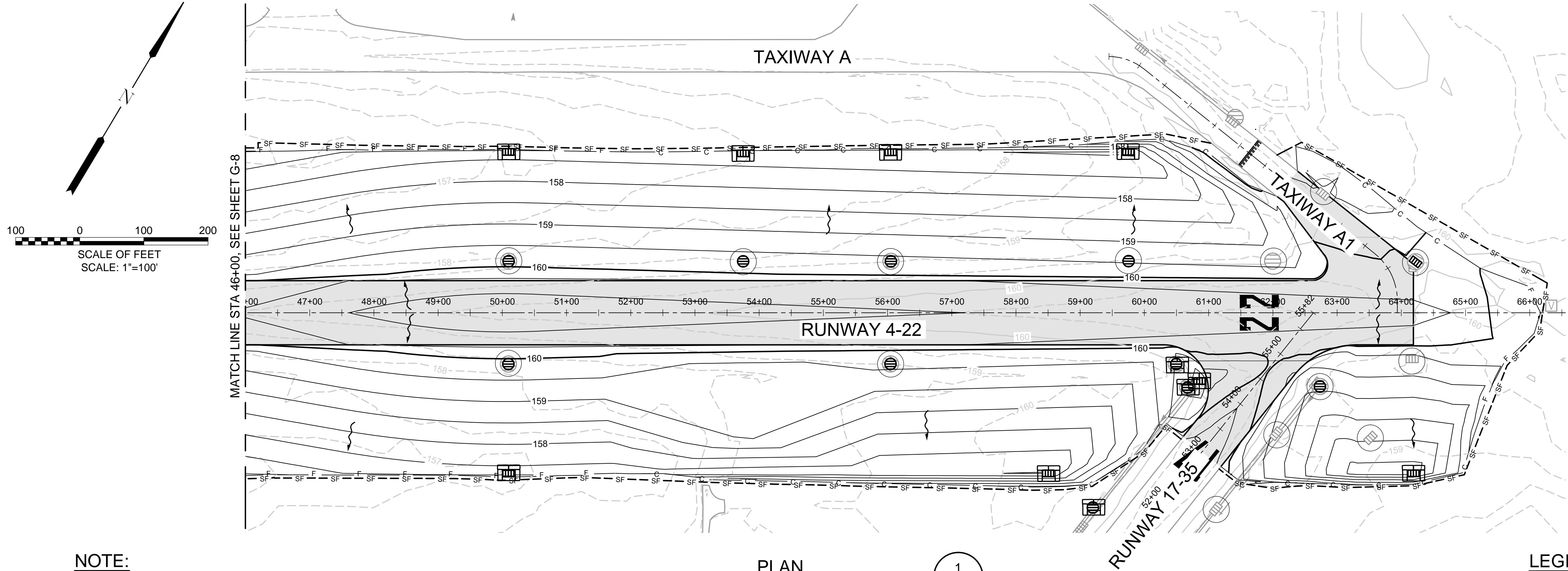
DRAWING NO.

G-8

SHEET NO.

8 OF 80

S:\Municipal\Projects\40228 City of McMinnville\008\03-CADD-Working Drawings\G-09 EROSION CONTROL PLAN.dwg



NOTE:

1. FOR EROSION CONTROL NOTES AND DETAILS, SEE SHEET G-10.

PLAN
SCALE: 1"=100'

1
G-9

LEGEND:

BIOFILTER INLET PROTECTION PER 1
G-10

BIOFILTER BAG PER 2
G-10

SEDIMENT FENCE PER 3
G-10

FABRIC INLET PROTECTION, PER 4
G-10

FLOW DIRECTION (SURFACE)

NEW PAVEMENT

EXISTING PAVEMENT

EXISTING INDEX CONTOUR

EXISTING 0.5' CONTOUR

NEW INDEX CONTOURS

NEW 0.5' CONTOURS

SAWCUT EXISTING PAVEMENT

CUT LINE

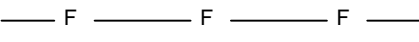
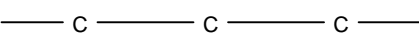
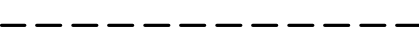
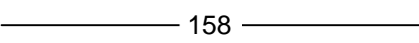
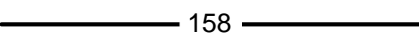
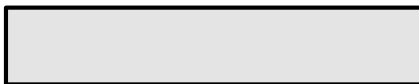
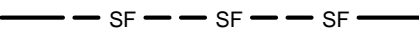
FILL LINE

STORM MANHOLE

STORM CATCH BASIN

EXISTING STORM MANHOLE

EXISTING AREA DRAIN



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CITY OF MCMINNVILLE
MCMINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

RUNWAY 4-22 EROSION CONTROL PLAN
STA 46+00 TO STA 66+50

DRAWING NO.
G-9

SHEET NO.
9 OF 80

EROSION/SEDIMENT CONTROL PLAN (ESCP) NOTES:

REFER TO GENERAL PERMIT NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STORMWATER DISCHARGE PERMIT, ISSUED BY OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY PURSUANT TO ORS 468B.050 AND SECTION 402 OF THE FEDERAL CLEAN WATER ACT.

1. HOLD A PRE-CONSTRUCTION MEETING OF PROJECT CONSTRUCTION PERSONNEL THAT INCLUDES THE INSPECTOR TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS. (SCHEDULE A.8.c.i.(3))

2. ALL INSPECTIONS MUST BE MADE IN ACCORDANCE WITH DEQ 1200-C PERMIT REQUIREMENTS. (SCHEDULE A.12.b AND SCHEDULE B.1.)

3. INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ 1200-C PERMIT REQUIREMENTS.

4. RETAIN A COPY OF THE ESCP AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON REQUEST TO DEQ, AGENT, OR THE LOCAL MUNICIPALITY. DURING INACTIVE PERIODS OF GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS, RETAIN THE ESCP AT THE CONSTRUCTION SITE OR AT ANOTHER LOCATION. (SCHEDULE B.2.a)

5. ALL PERMIT REGISTRANTS MUST IMPLEMENT THE ESCP. FAILURE TO IMPLEMENT ANY OF THE CONTROL MEASURES OR PRACTICES DESCRIBED IN THE ESCP IS A VIOLATION OF THE PERMIT. (SCHEDULE A.8.a)

6. THE ESCP MUST BE ACCURATE AND REFLECT SITE CONDITIONS (SCHEDULE A.12.c.i.)

7. SUBMISSION OF ALL ESCP REVISIONS IS NOT REQUIRED. SUBMITTAL OF THE ESCP REVISIONS IS ONLY UNDER SPECIFIC CONDITIONS. SUBMIT ALL NECESSARY REVISION TO DEQ OR AGENT WITHIN 10 DAYS. (SCHEDULE A.12.c.iv. and v))

8. PHASE CLEARING AND GRADING TO THE MAXIMUM EXTENT PRACTICAL TO PREVENT EXPOSED INACTIVE AREAS FROM BECOMING A SOURCE OF EROSION. (SCHEDULE A.7.a.iii)

9. IDENTIFY, MARK, AND PROTECT (BY FENCING OFF OR OTHER MEANS) CRITICAL RIPARIAN AREAS AND VEGETATION INCLUDING IMPORTANT TREES AND ASSOCIATE ROOTING ZONES, AND VEGETATION AREAS TO BE PRESERVED. IDENTIFY VEGETATIVE BUFFER ZONES BETWEEN THE SITE AND SENSITIVE AREAS (E.G. WETLANDS), AND OTHER AREAS TO BE PRESERVED, ESPECIALLY IN PERIMETER AREAS. (SCHEDULE A.8.c.i.(1) & (2))

10. PRESERVE EXISTING VEGETATION WHEN PRACTICAL AND RE-VEGETATE OPEN AREAS. RE-VEGETATE OPEN AREAS WHEN PRACTICABLE BEFORE AND AFTER GRADING OR CONSTRUCTION. IDENTIFY THE TYPE OF VEGETATIVE SEED MIX USED. (SCHEDULE A.7.b.iii.(1)) AND A.7.b.iii.(3))

11. MAINTAIN AND DELINEATE ANY EXISTING NATURAL BUFFER WITHIN THE 50-FEET OF ATERS OF THE STATE. (SCHEDULE A.7.b.i. and (2)(a)(b))

12. INSTALL PERIMETER SEDIMENT CONTROL, INCLUDING STORM DRAIN INLET PROTECTION AS WELL AS SEDIMENT BASINS, TRAPS, AND BARRIERS PRIOR TO LAND DISTURBANCE (SCHEDULE A.8.c.i.(5))

13. CONTROL PEAK FLOW RATES AND TOTAL STORMWATER VOLUME, TO MINIMIZE EROSION AT OUTLETS AND DOWNSTREAM CHANNELS AND STREAMBANKS. (SCHEDULE A.7.c)

14. CONTROL SEDIMENT AS NEEDED ALONG THE SITE PERIMETER AND AT ALL OPERATIONS INTERNAL STORM DRAIN INLETS AT ALL TIMES DURING CONSTRUCTION, BOTH INTERNALLY AND AT THE SITE BOUNDARY. (SCHEDULE A.7.d.i)

15. ESTABLISH CONCRETE TRUCK AND OTHER CONCRETE EQUIPMENT WASHOUT AREAS BEFORE BEGINNING CONCRETE WORK. (SCHEDULE A.8.c.i.(6))

16. APPLY TEMPORARY AND/OR PERMANENT SOIL STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS AS GRADING PROGRESSES. TEMPORARY OR PERMANENT STABILIZATIONS MEASURES ARE NOT REQUIRED FOR AREAS THAT ARE INTENDED TO BE LEFT UNVEGETATED, SUCH AS DIRT ACCESS ROADS OR UTILITY POLE PADs. (SCHEDULE A.8.c.ii.3))

17. ESTABLISH MATERIAL AND WASTE STORAGE AREAS, AND OTHER NON-STORMWATER CONTROLS. (SCHEDULE A.8.c.i.(7))

18. PREVENT TRACKING OF SEDIMENT ONTO PUBLIC OF PRIVATE ROADS USING BMPS SUCH AS: GRAVELED (OR PAVED) EXITS AND PARKING AREAS, GRAVEL ALL UNPAVED ROADS LOCATED ONSITE, OR USE AN EXIT TIRE WASH. THESE BMPS MUST BE IN PLACE PRIOR TO LAND-DISTURBING ACTIVITIES. (SCHEDULE A.7.d.ii AND A.8.c.i.(4))

19. WHEN TRUCKING SATURATED SOILS FROM THE SITE, EITHER USE WATER-TIGHT TRUCKS OR DRAIN LOADS ON SITE. (SCHEDULE A.7.d.ii.(5))

20. CONTROL PROHIBITED DISCHARGES FROM LEAVING THE CONSTRUCTION SITE, I.E., CONCRETE WASH-OUT, WASTEWATER FROM CLEANOUT OF STUCCO, PAINT AND CURING COMPOUNDS (SCHEDULE A.6)

21. USE BMPS TO PREVENT OR MINIMIZE STORMWATER EXPOSURE TO POLLUTANTS FROM SPILLS; VEHICLE AND EQUIPMENT FUELING, MAINTENANCE, AND STORAGE; OTHER CLEANING AND MAINTENANCE ACTIVITIES; WASTE HANDLING ACTIVITIES. THESE POLLUTANTS INCLUDE FUEL, HYDRAULIC FLUID, AND OTHER OILS FROM VEHICLES AND MACHINERY, AS WELL AS DEBRIS, LEFTOVER PAINTS, SOLVENTS, AND GLUES FROM CONSTRUCTION OPERATIONS. (SCHEDULE A.7.e.i.(2))

22. IMPLEMENT THE FOLLOWING BMPS WHEN APPLICABLE: WRITTEN SPILL PREVENTION AND RESPONSE PROCEDURES, EMPLOYEE TRAINING ON SPILL PREVENTION AND PROPER DISPOSAL PROCEDURES, SPILL KITS IN ALL VEHICLES, REGULAR MAINTENANCE SCHEDULE FOR VEHICLES AND MACHINERY, MATERIAL DELIVERY AND STORAGE CONTROLS, TRAINING AND SIGNAGE, AND COVERED STORAGE AREAS FOR WASTE AND SUPPLIES. (SCHEDULE A.7.e.iii.)

23. USE WATER, SOIL-BINDING AGENT OR OTHER DUST CONTROL TECHNIQUE AS NEEDED TO AVOID WIND-BLOWN SOIL. (SCHEDULE A.7.A.iv)

24. THE APPLICATION RATE OF FERTILIZERS USED TO REESTABLISH VEGETATION MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS TO MINIMIZE NUTRIENT RELEASES TO SURFACE WATERS. EXERCISE CAUTION WHEN USING TIME-RELEASE FERTILIZERS WITHIN ANY WATERWAY OR RIPARIAN ZONE. (SCHEDULE A.9.b.iii.)

25. IF AN ACTIVE TREATMENT SYSTEM (FOR EXAMPLE, ELECTRO-COAGULATION, FLOCCULATION, FILTRATION, ETC.) FOR SEDIMENT OR OTHER POLLUTANT REMOVAL IS EMPLOYED, SUBMIT AN OPERATION AND MAINTENANCE PLAN (INCLUDING SYSTEM SCHEMATIC, LOCATION OF SYSTEM, LOCATION OF INLET, LOCATION OF DISCHARGE, DISCHARGE DISPERSION DEVICE DESIGN, AND A SAMPLING PLAN AND FREQUENCY) BEFORE OPERATING THE TREATMENT SYSTEM. OBTAIN PLAN APPROVAL BEFORE OPERATING THE TREATMENT SYSTEM. OPERATE AND MAINTAIN THE TREATMENT SYSTEM ACCORDING TO MANUFACTURER'S SPECIFICATIONS. (SCHEDULE A.9.d.)

26. TEMPORARILY STABILIZE SOILS AT THE END OF THE SHIFT BEFORE HOLIDAYS AND WEEKENDS, IF NEEDED. THE REGISTRANT IS RESPONSIBLE FOR ENSURING THAT SOILS ARE STABLE DURING RAIN EVENTS AT ALL TIMES OF THE YEAR. (SCHEDULE A.7.b.)

27. AS NEEDED BASED ON WEATHER CONDITIONS, AT THE END OF EACH WORKDAY SOIL STOCKPILES MUST BE STABILIZED OR COVERED, OR OTHER BMPS MUST BE IMPLEMENTED TO PREVENT DISCHARGES TO SURFACE WATERS OR CONVEYANCE SYSTEMS LEADING TO SURFACE WATERS. (SCHEDULE A.7.e.ii.(2))

28. CONSTRUCTION ACTIVITIES MUST AVOID OR MINIMIZE EXCAVATION AND BARE GROUND ACTIVITIES DURING WET WEATHER. (SCHEDULE A.7.a.i.)

29. SEDIMENT FENCE: REMOVE TRAPPED SEDIMENT BEFORE IT REACHES ONE THIRD OF THE ABOVE GROUND HEIGHT AND BEFORE FENCE REMOVAL. (SCHEDULE A.9.c.i.)

30. OTHER SEDIMENT BARRIERS (SUCH AS BIOBAGS): REMOVE SEDIMENT BEFORE IT REACHES TWO INCHES DEPTH ABOVE GROUND HEIGHT AND BEFORE BMP REMOVAL. (SCHEDULE A.9.c.ii.)

31. CATCH BASINS: CLEAN BEFORE RETENTION CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT. SEDIMENT BASINS AND SEDIMENT TRAPS: REMOVE TRAPPED SEDIMENTS BEFORE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT AND AT COMPLETION OF PROJECT. (SCHEDULE A.9.c.iii. & iv)

32. WITHIN 24 HOURS, SIGNIFICANT SEDIMENT THAT HAS LEFT THE CONSTRUCTION SITE, MUST BE REMEDIATED. INVESTIGATE THE CAUSE OF THE SEDIMENT RELEASE AND IMPLEMENT STEPS TO PREVENT A RECURRENCE OF THE DISCHARGE WITHIN THE SAME 24 HOURS. ANY IN-STREAM CLEAN UP OF SEDIMENT SHALL BE PERFORMED ACCORDING TO THE OREGON DIVISION OF STATE LANDS REQUIRED TIMEFRAME. (SCHEDULE A.9.b.i.)

33. THE INTENTIONAL WASHING OF SEDIMENT INTO STORM SEWERS OR DRAINAGE WAYS MUST NOT OCCUR. VACUUMING OR DRY SWEEPING AND MATERIAL PICKUP MUST BE USED TO CLEAN UP RELEASED SEDIMENTS. (SCHEDULE A.9.b.ii.)

34. THE ENTIRE SITE MUST BE TEMPORARILY STABILIZED USING VEGETATION OR A HEAVY MULCH LAYER, TEMPORARY SEEDING, OR OTHER METHOD SHOULD CONSTRUCTION ACTIVITIES CEASE FOR 30 DAYS OR MORE. (SCHEDULE A.7.f.i.)

35. PROVIDE TEMPORARY STABILIZATION FOR THAT PORTION OF THE SITE WHERE CONSTRUCTION ACTIVITIES CEASE FOR 14 DAYS OR MORE WITH A COVERING OF BLOWN STRAW AND TACKIFIER, LOOSE STRAW, OR AN ADEQUATE COVERING OF COMPOST MULCH UNTIL WORK RESUMES ON THAT PORTION OF THE SITE. (SCHEDULE A.7.f.ii.)

36. DO NOT REMOVE TEMPORARY SEDIMENT CONTROL PRACTICES UNTIL PERMANENT VEGETATION OR OTHER COVER OF EXPOSED AREAS IS ESTABLISHED. ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED, ALL TEMPORARY EROSION CONTROLS AND RETAINED SOILS MUST BE REMOVED AND DISPOSED OF PROPERLY, UNLESS DOING SO CONFLICTS WITH LOCAL REQUIREMENTS. (SCHEDULE A.8.c.iii(1) AND D.3.c.ii and iii)
-
- BIOFILTER BAG
N.T.S.
- 2
- G-10
-
- SEDIMENT FENCE
N.T.S.
- 3
- G-10
-
- BIOFILTER INLET PROTECTION
N.T.S.
- 1
- G-10
-
- FABRIC INLET PROTECTION
N.T.S.
- 4
- G-10
- S:\Municipal\Projects\40228 City of McMinnville\008\03\----CADD\----Working Drawings\G-10 EROSION CONTROL DETAILS.dwg
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- VERIFY SCALES
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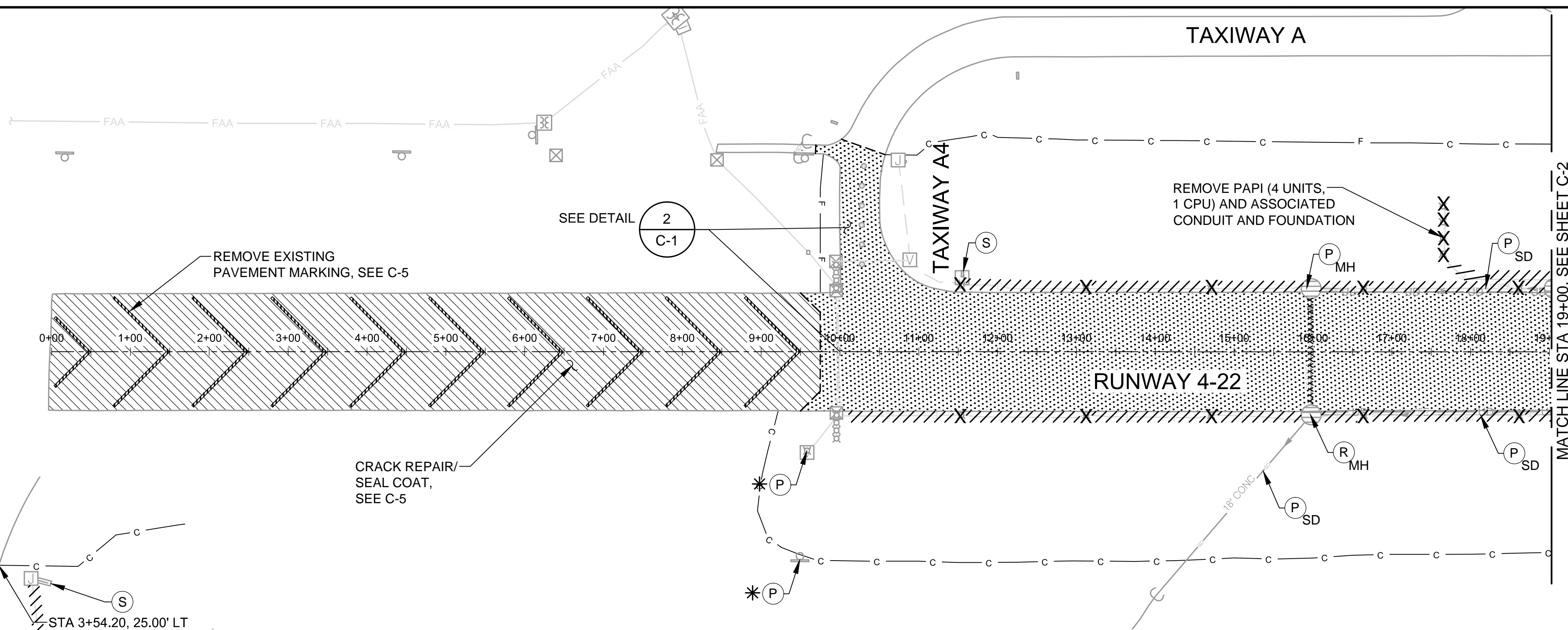
PORTLAND OFFICE
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PORTLAND, OR 97239
503.419.2130
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APRIL 2016

PROJECT NO:
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JLS |
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JNR |
| SCALE:
AS NOTED |
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| CITY OF MCMINNVILLE
MCMINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT | DRAWING NO.
G-10 |
| | SHEET NO.
10 OF 80 |

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SCALE OF FEET
SCALE: 1"=100'



PLAN
SCALE: 1"=100'

GENERAL NOTES:

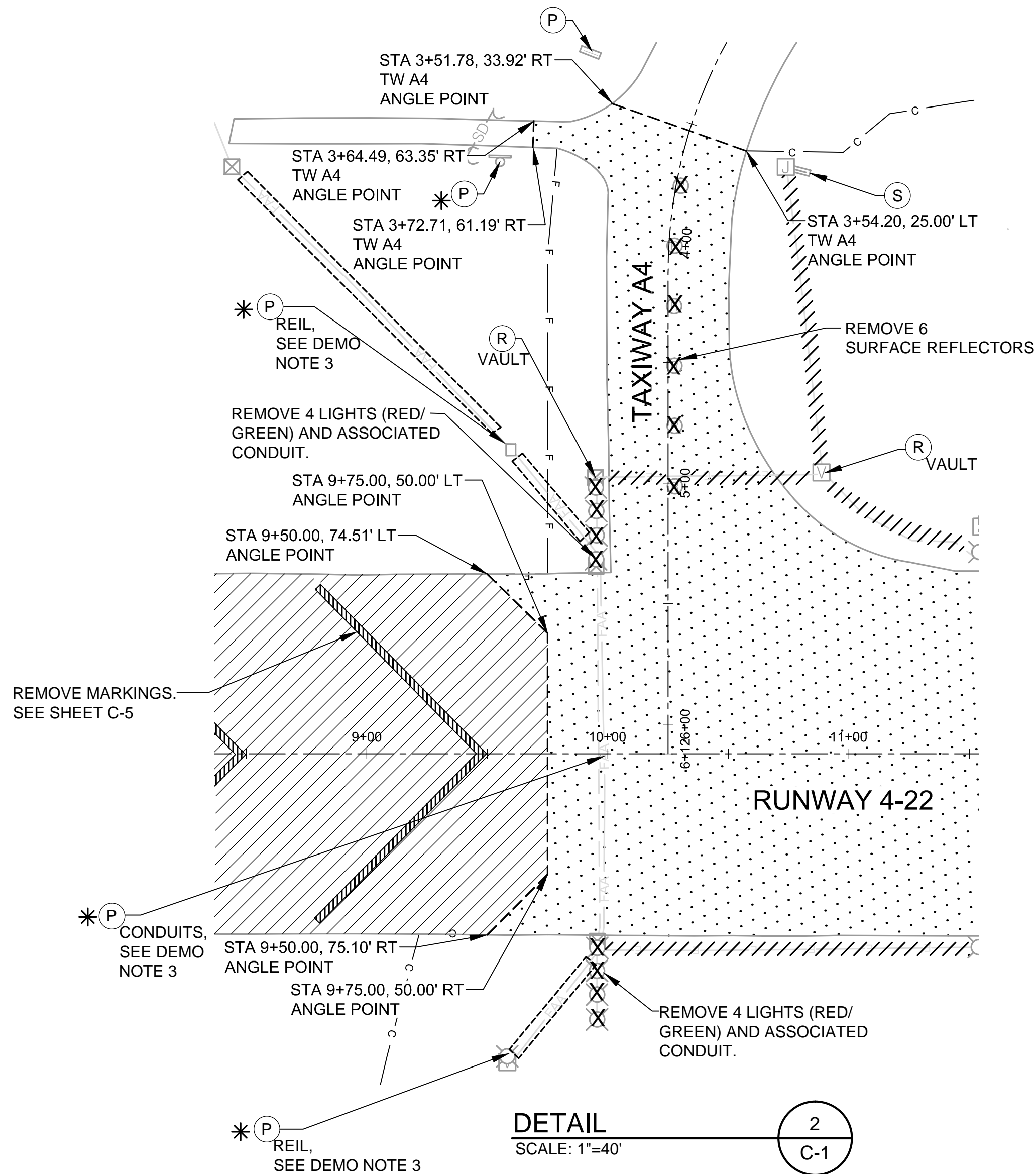
- ALL GEOMETRY BASED ON RUNWAY 4-22 CENTERLINE ALIGNMENT UNLESS OTHERWISE NOTED.

DEMOLITION NOTES:

- PROTECT EXISTING STRUCTURES, UTILITIES AND FEATURES TO REMAIN.
- PROTECT EXISTING PAVEMENT UNDERDRAINS, UNLESS OTHERWISE NOTED.
- PROTECT FAA OWNED RUNWAY END INDICATOR LIGHTS (REIL) AND ASSOCIATED VAULTS, CONDUIT, AND CONDUCTORS.

LEGEND

CRACK REPAIR/SEAL COAT	
ASPHALT CONCRETE PAVEMENT REMOVAL	
SAWCUT EXISTING PAVEMENT SEE 1 C-33	
FIXTURE/STRUCTURE REMOVAL	X
REMOVE EXISTING LIGHTING CIRCUIT CABLE AND COUNTERPOISE.	
MARKING REMOVAL	
EXISTING UTILITY TO BE PROTECTED	
EXISTING ELECTRICAL	
FAA OWNED ELECTRICAL LINE (DO NOT DISRUPT)	
CUT LINE	
FILL LINE	
EXISTING UNDERDRAIN	
EXISTING DUCT MARKER	
EXISTING ELECTRICAL VAULT	
EXISTING JUNCTION CAN	
REMOVE GUIDANCE SIGN AND FOUNDATION	
PROTECT	
REMOVE	
REMOVE STORM DRAIN	
FAA OWNED EQUIPMENT	



DETAIL
SCALE: 1"=40'



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CITY OF MCMINNVILLE
MCMINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

DEMOLITION PLAN
STA 0+00 TO STA 19+00

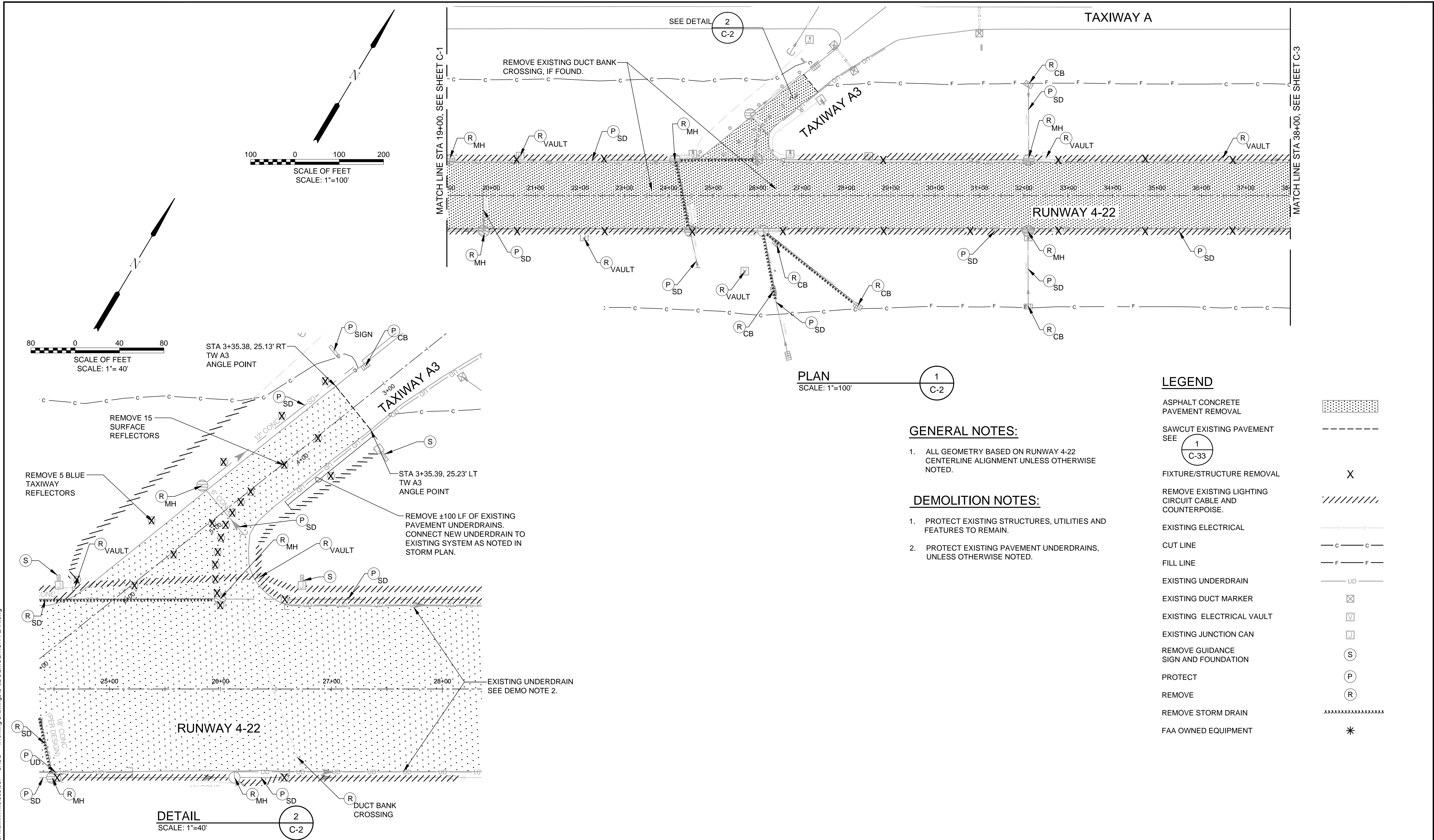
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C-1

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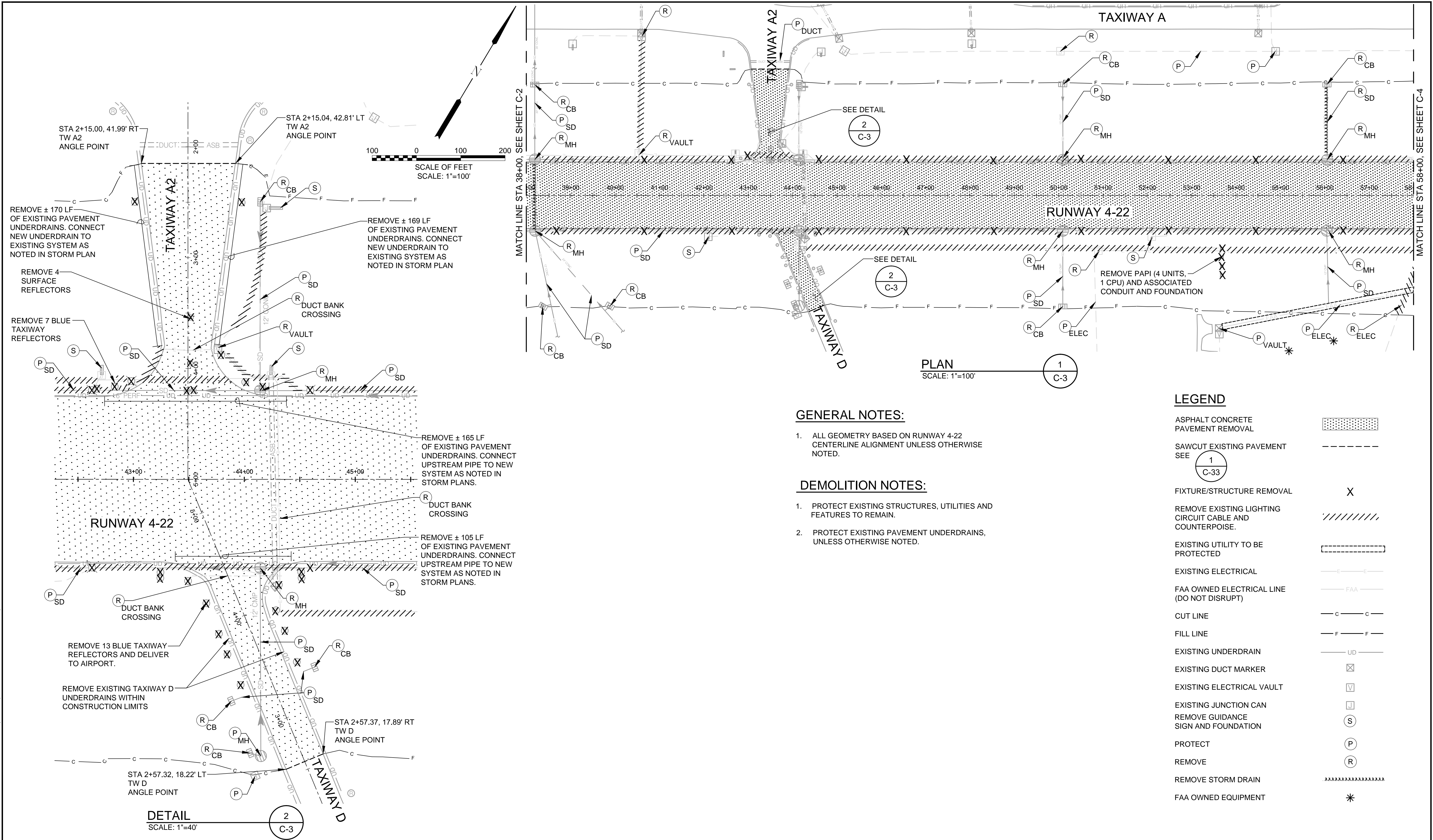
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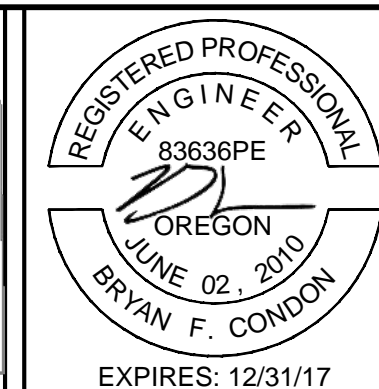
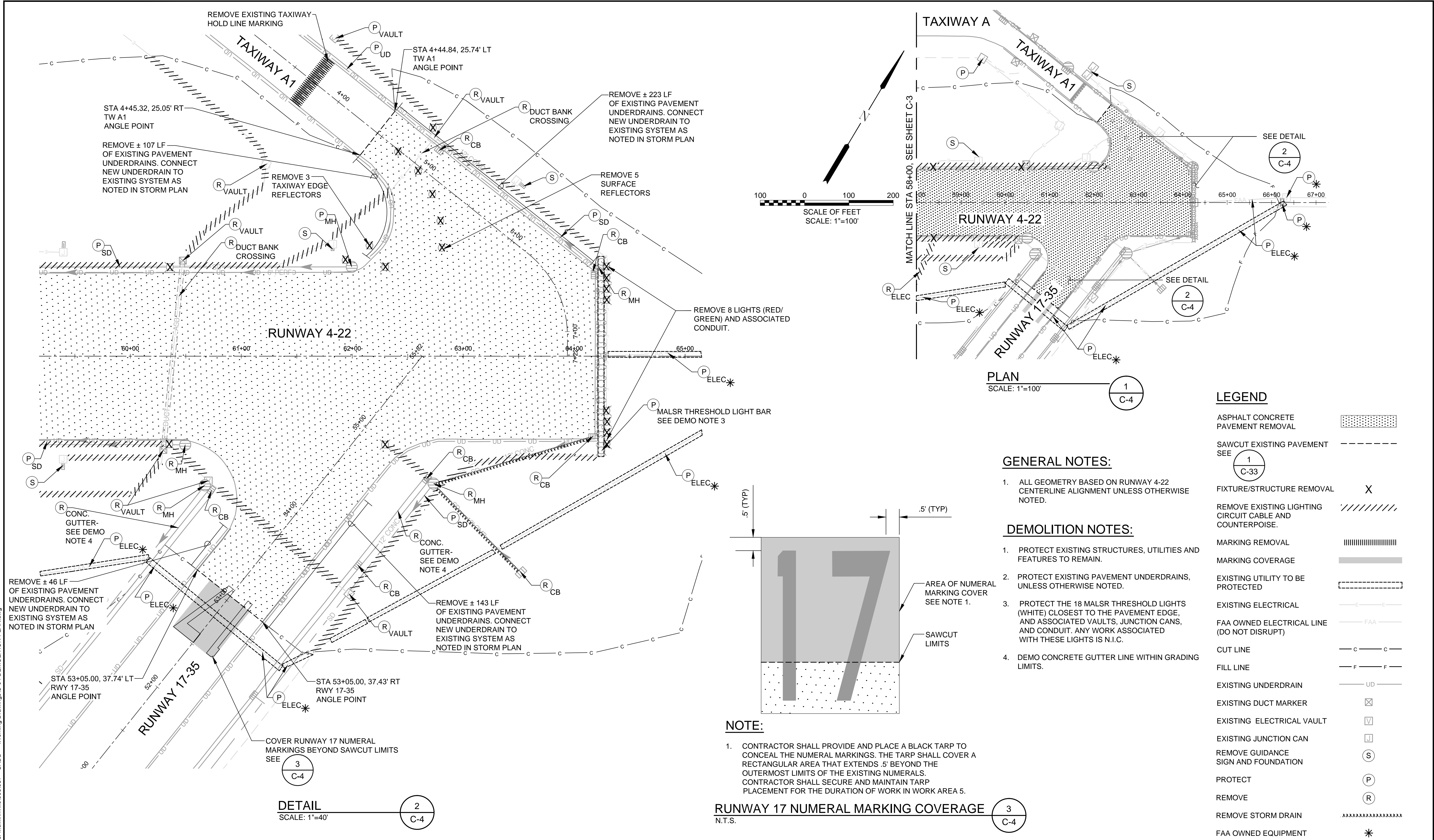
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				NO.	DATE	BY	APPR	REVISIONS																								
DRAWN BY: BMV	CHECKED BY: JNR	SCALE: AS NOTED	SHEET NO. 12 OF 80																													
DATE: APRIL 2016 PROJECT NO: 40228.008.03						DEMOLITION PLAN STA 19+00 TO STA 38+00																										

S:\Municipal\Projects\40228 City of McMinnville\008\03-CADD-Working Drawings\C-03 DEMOLITION PLAN.dwg



		VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING. 0" 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	NO.	DATE	BY	APPR	REVISIONS	 PORTLAND OFFICE 5331 SW MACADAM AVE., #207 PORTLAND, OR 97239 503.419.2130 503.639.2710 FAX	DESIGNED BY: BFC	CITY OF MCMINNVILLE MCMINNVILLE MUNICIPAL AIRPORT RUNWAY 4-22 REHABILITATION PROJECT	DRAWING NO. C-3
									CHECKED BY: JNR	DEMOLITION PLAN STA 38+00 TO STA 58+00	
									SCALE: AS NOTED		

S:\Municipal\Projects\40228 City of McMinnville\008\03-CADD-Working Drawings\C-04 DEMOLITION PLAN.dwg



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CENTURY WEST ENGINEERING

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SCALE: AS NOTED

DATE: APRIL 2016

PROJECT NO: 40228.008.03

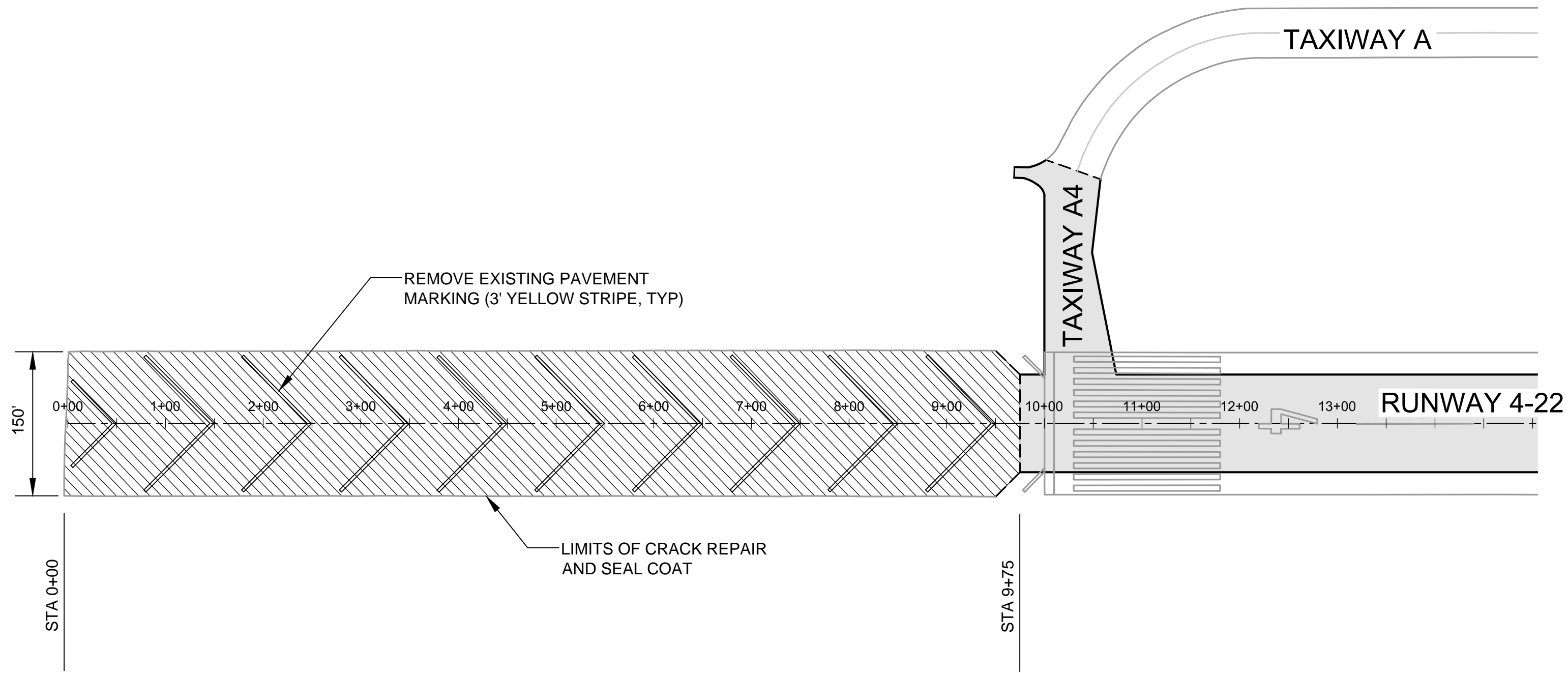
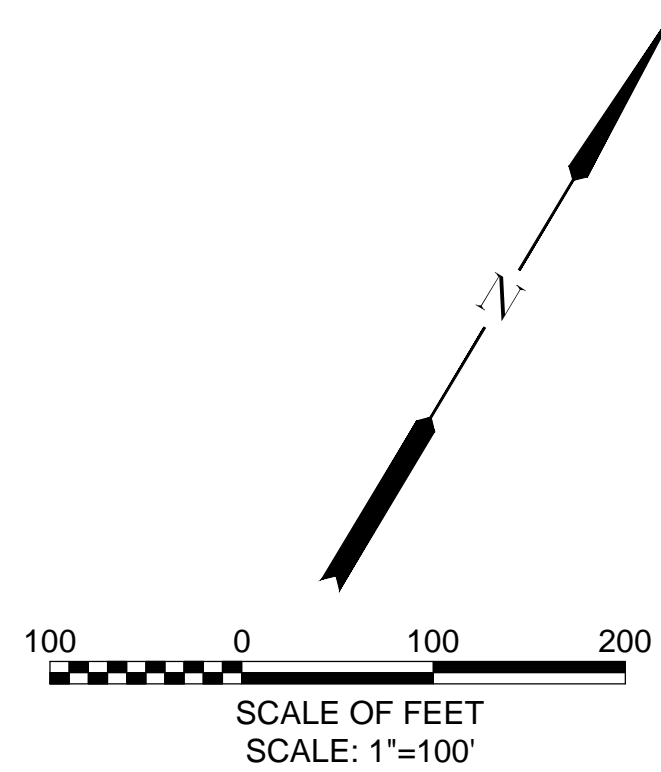
CITY OF MCMINNVILLE
MCMINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

DEMOLITION PLAN
STA 58+00 TO STA 67+00

DRAWING NO. **C-4**

SHEET NO. **14 OF 80**

S:\Municipal\Projects\40228 City of McMinnville\008\03\----CADD\----Working Drawings\C-05 CRACK REPAIR AND FOG SEAL PLAN.dwg



CRACK REPAIR AND SEAL COAT PLAN
SCALE: 1"=100'

1
C-5

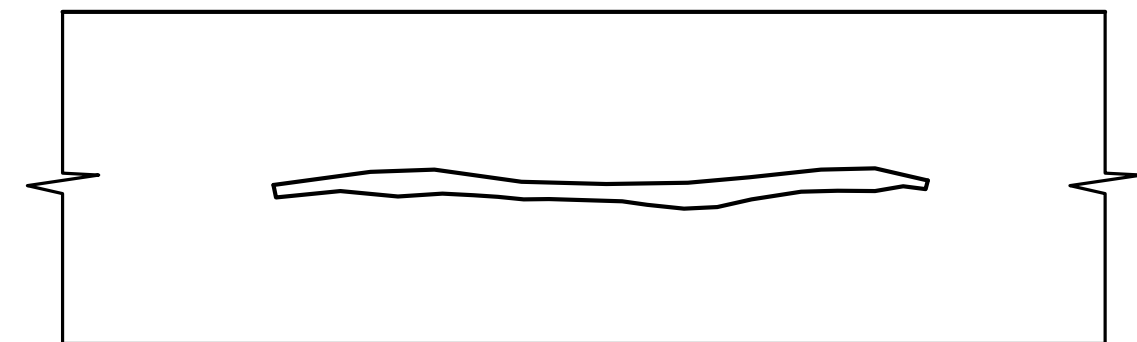
LEGEND

CRACK REPAIR/ SEAL COAT
SEE DETAILS

2
C-5

3
C-5

NEW PAVEMENT

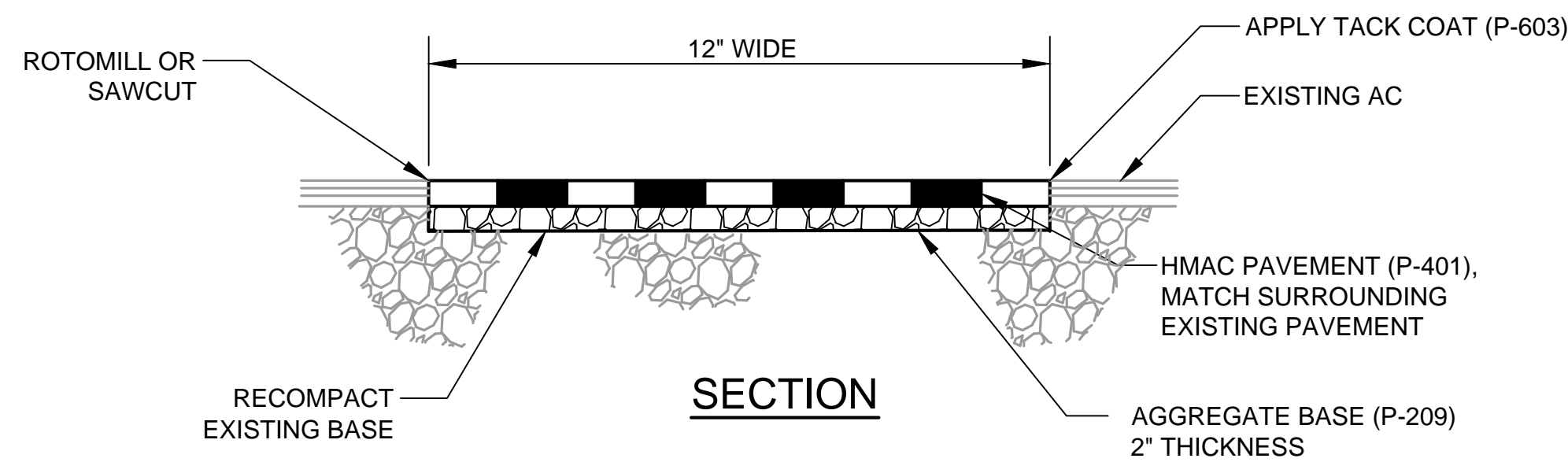


NOTES:

1. CLEAR CRACK OF ALL EXISTING DEBRIS AND VEGETATION.
2. FOR PREVIOUSLY SEALED CRACKS, HEAT LANCE TO LIQUIFY EXISTING FILLER MATERIAL. CRACKS SHALL BE REFILLED TO MATCH FINISH SURFACE.
3. FOR CRACKS WITH EXCESS VEGETATION, CLEAN CRACKS WITH HEAT LANCE AND FILL WITH RUBBERIZED ASPHALT CRACK SEALANT TO MATCH FINISHED SURFACE.
4. FOR PREVIOUSLY UNSEALED CRACKS, ROUTE AND FILL WITH RUBBERIZED ASPHALT CRACK SEALANT.
5. CRACK REPAIR WILL BE MARKED OUT IN THE FIELD BY THE ENGINEER PRIOR TO WORK.

CRACK REPAIR FOR
CRACKS LESS THAN 1" IN WIDTH
N.T.S.

2
C-5



SECTION

NOTE:

1. CRACK REPAIR WILL BE MARKED OUT IN THE FIELD BY THE ENGINEER PRIOR TO WORK.

CRACK REPAIR FOR
CRACKS GREATER THAN 1" IN WIDTH
N.T.S.

3
C-5

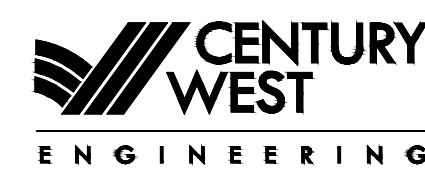
GENERAL NOTES:

1. ALL EXISTING PAVEMENT MARKINGS WITHIN SEAL COAT LIMITS TO BE REMOVED PRIOR TO CRACK SEALING. ENGINEER HAS REPRESENTED EXISTING MARKINGS IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE EXISTING MARKINGS IN THE FIELD AND REMOVE ACCORDING TO THE SPECIFICATIONS.
2. ANY GRASS OR WEEDS OVERGROWN ON TO PAVEMENT SURFACE SHALL BE ELIMINATED PRIOR TO SEAL COAT.
3. PAVEMENT MARKINGS TO BE REMARKED AFTER SEAL COAT, SEE C-47.



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DATE:
APRIL 2016

PROJECT NO:
40228.008.03

DESIGNED BY:

BFC

DRAWN BY:

BMV

CHECKED BY:

JNR

SCALE:

AS NOTED

CITY OF MCMINNVILLE
MCMINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

CRACK REPAIR AND SEAL COAT PLAN

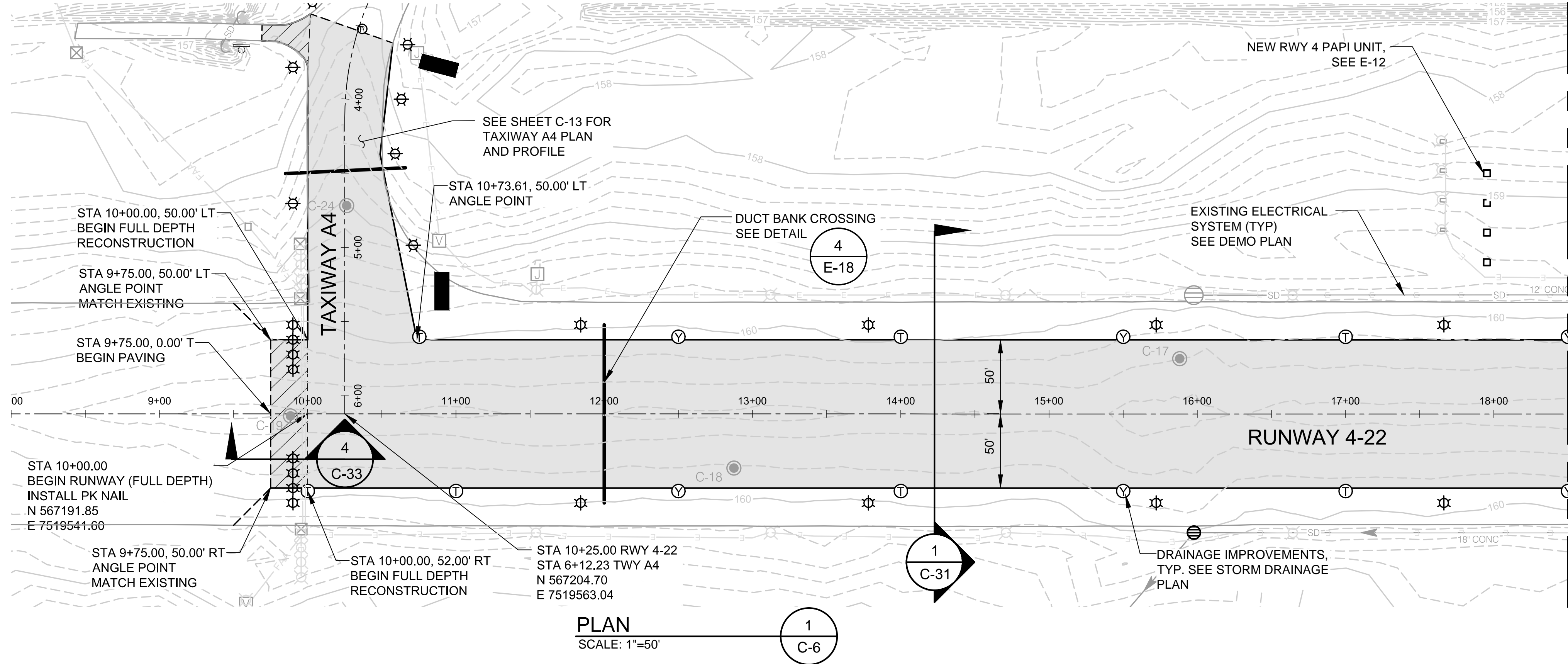
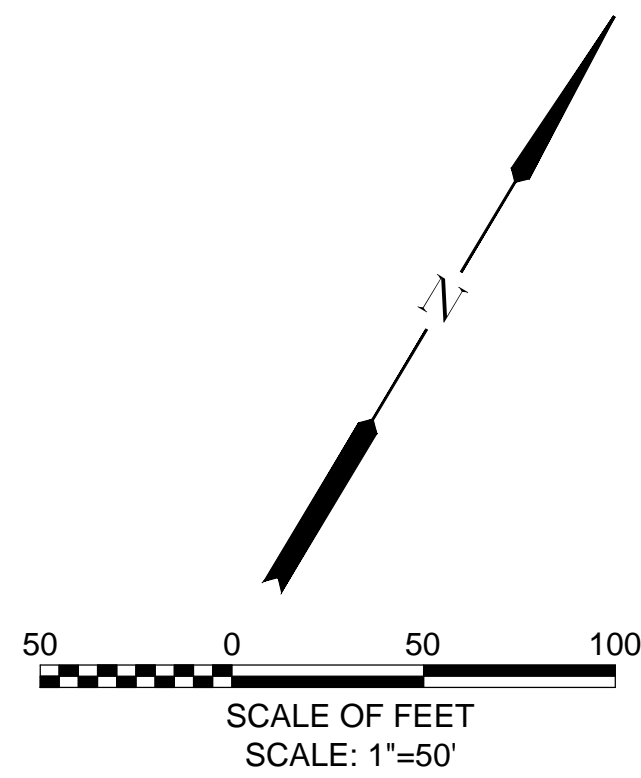
DRAWING NO.

C-5

SHEET NO.

15 OF 80

S:\Municipal\Projects\0228 City of McMinnville\008\03\----CADD\----Working Drawings\C-06 PLAN AND PROFILE.dwg

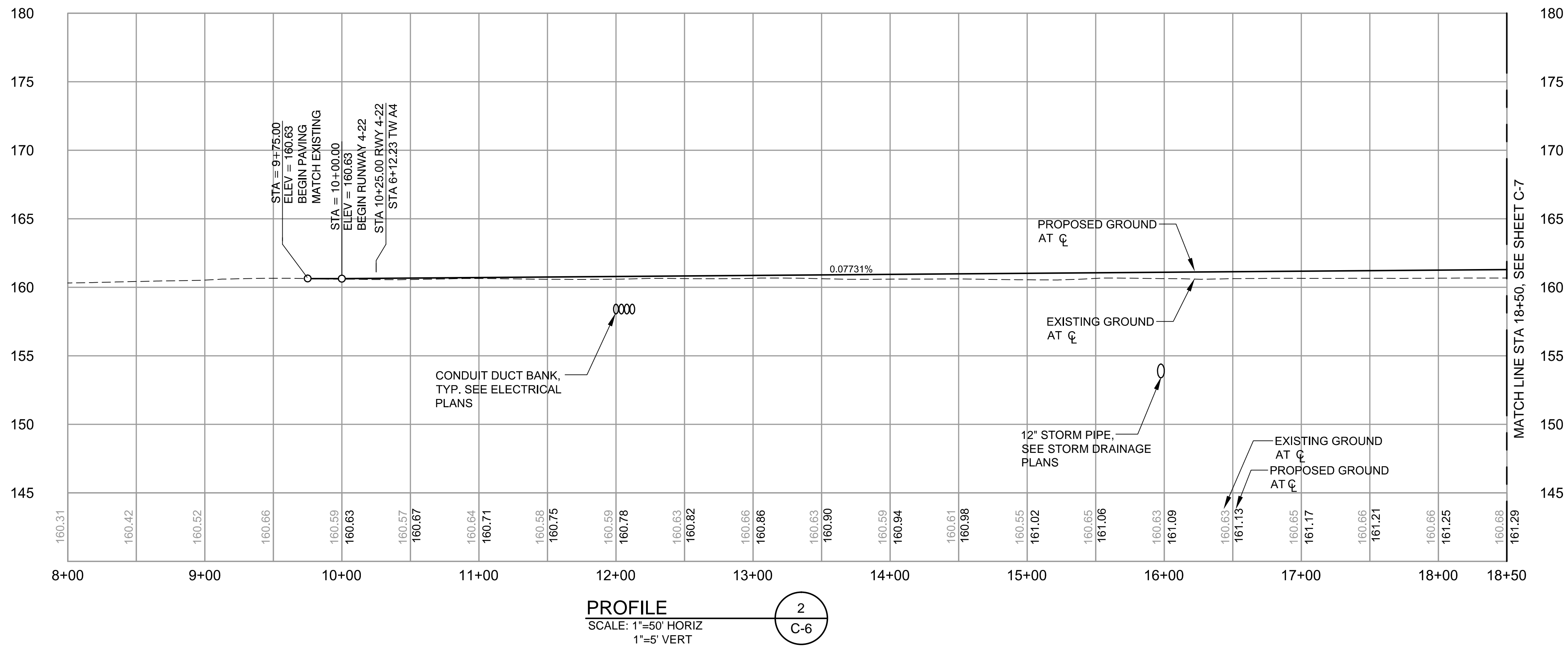
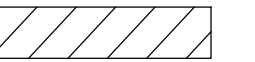


NOTE:

1. ALL GEOMETRY BASED ON RUNWAY 4-22 CENTERLINE ALIGNMENT UNLESS OTHERWISE NOTED.

LEGEND

ASPHALT CONCRETE PAVING ONLY (NO FULL DEPTH RECONSTRUCTION).



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CITY OF MCMINNVILLE
MCMINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

RUNWAY 4-22 PLAN AND PROFILE
STA 8+00 TO STA 18+50

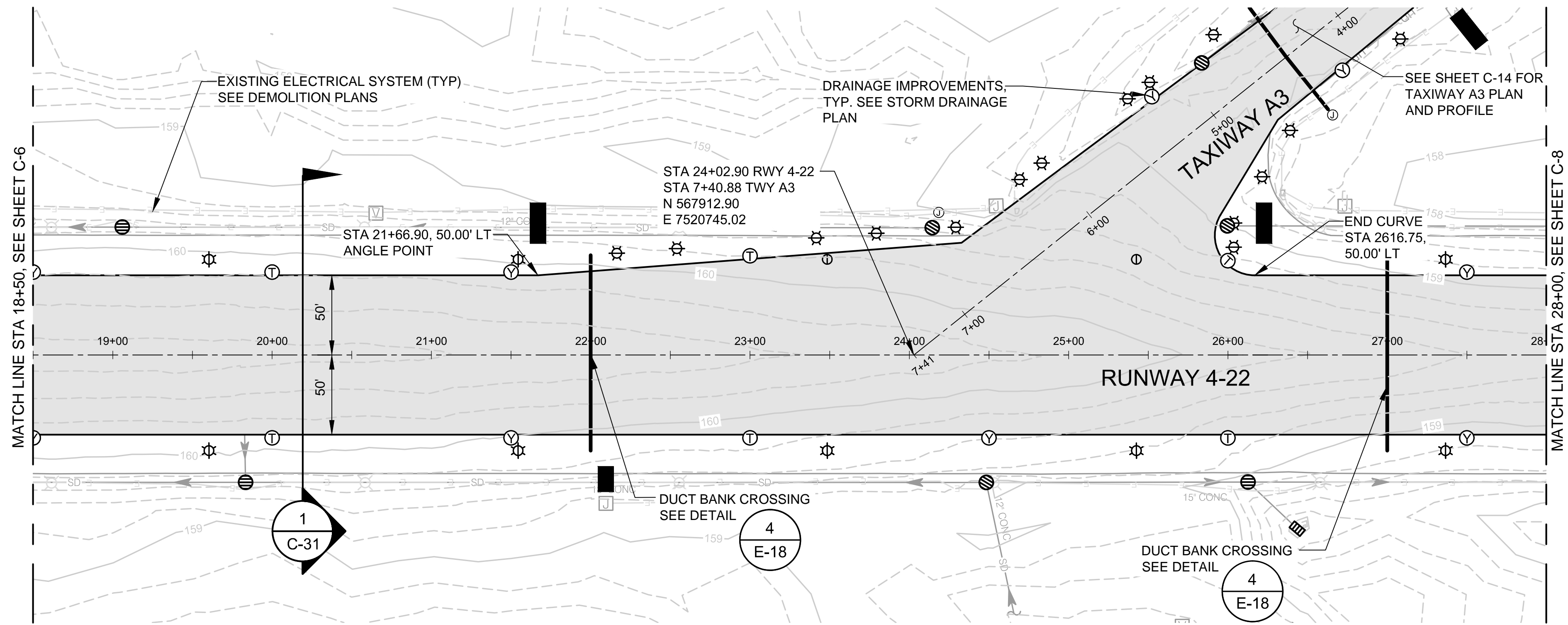
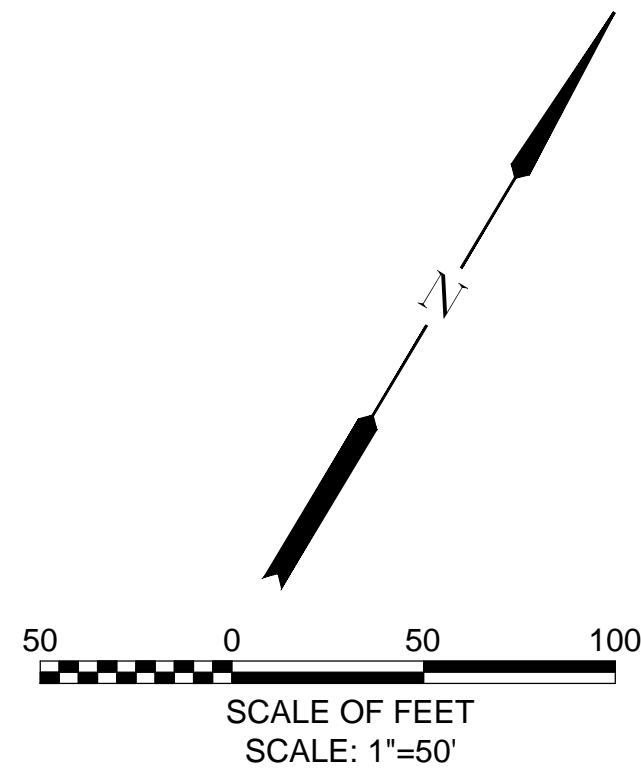
DRAWING NO.

C-6

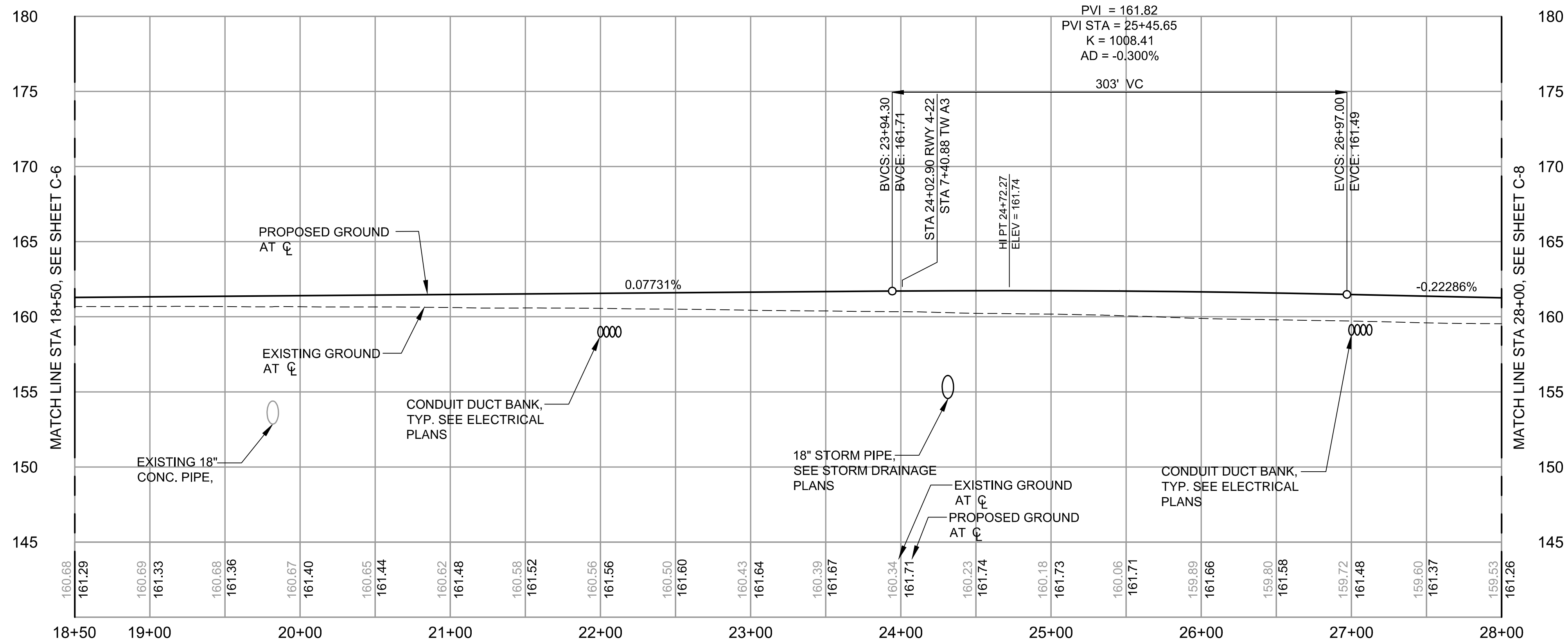
SHEET NO.

16 OF 80

S:\Municipal\Projects\0228 City of McMinnville\008\03-CADD-Working Drawings\C-07 PLAN AND PROFILE REV-A.dwg



PLAN
SCALE: 1"=50'




PROFILE
SCALE: 1"=50' HORIZ
1"=5' VERT

NOTE:
1. ALL GEOMETRY BASED ON RUNWAY 4-22 CENTERLINE ALIGNMENT UNLESS OTHERWISE NOTED.



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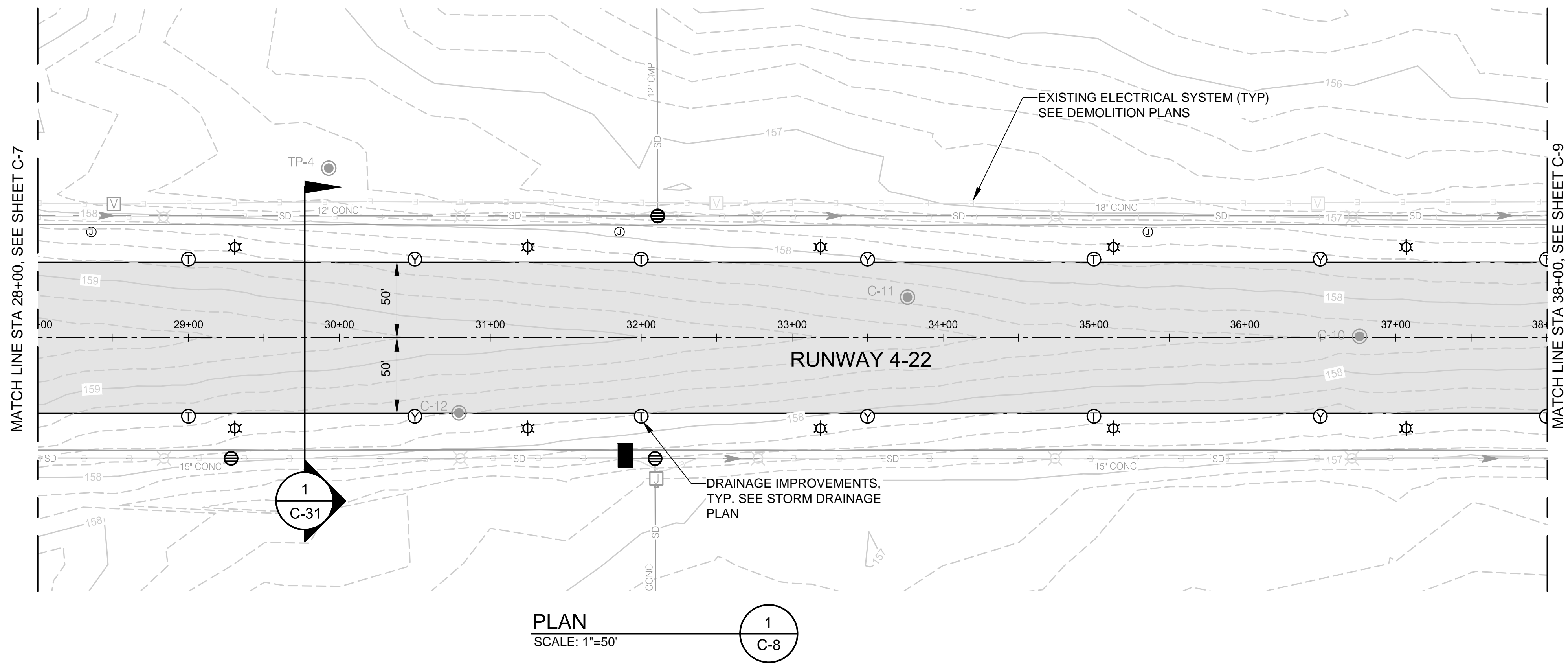
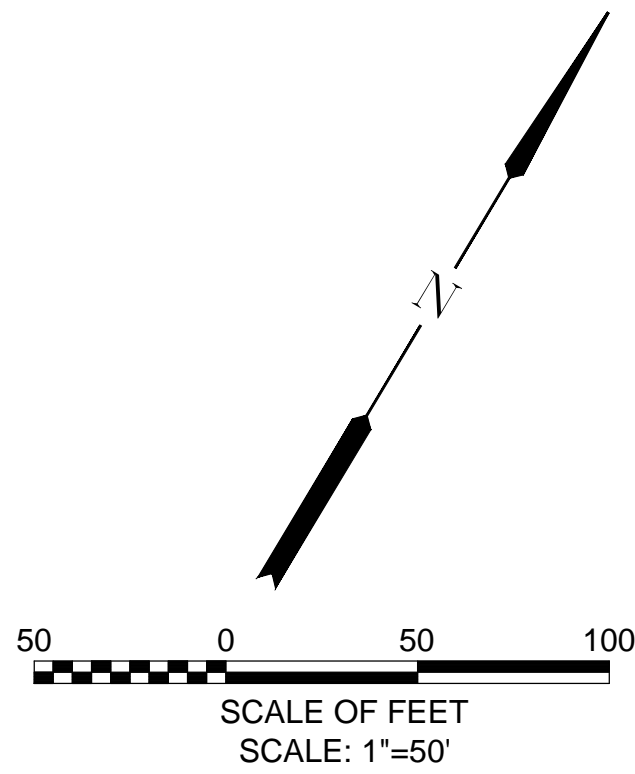
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PROJECT NO: 40228.008.03

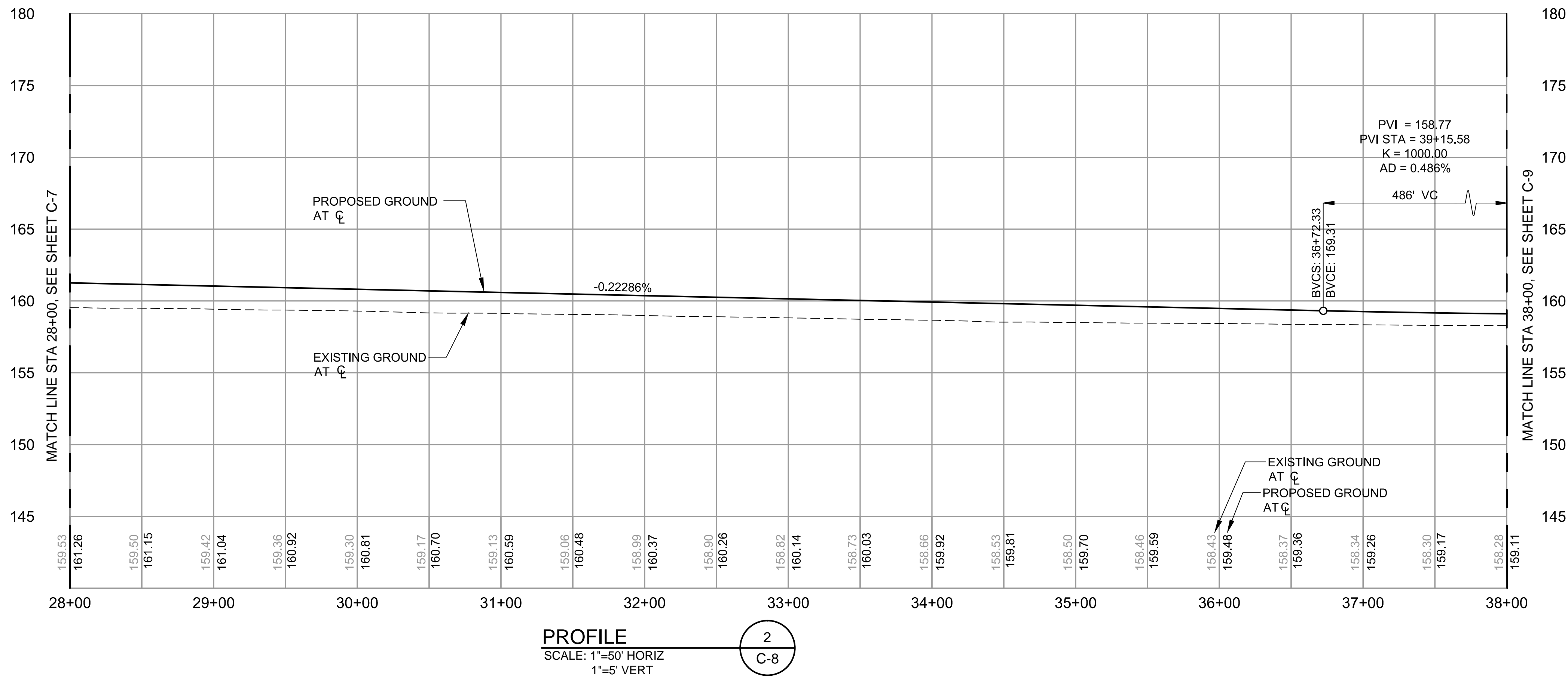
DESIGNED BY: BFC
DRAWN BY: BMV
CHECKED BY: JNR
SCALE: AS NOTED

CITY OF MCMINNVILLE MCMINNVILLE MUNICIPAL AIRPORT RUNWAY 4-22 REHABILITATION PROJECT		DRAWING NO. C-7
RUNWAY 4-22 PLAN AND PROFILE STA 18+50 TO STA 28+00		SHEET NO. 17 OF 80



NOTE:

1. ALL GEOMETRY BASED ON RUNWAY 4-22
CENTERLINE ALIGNMENT UNLESS OTHERWISE
NOTED.




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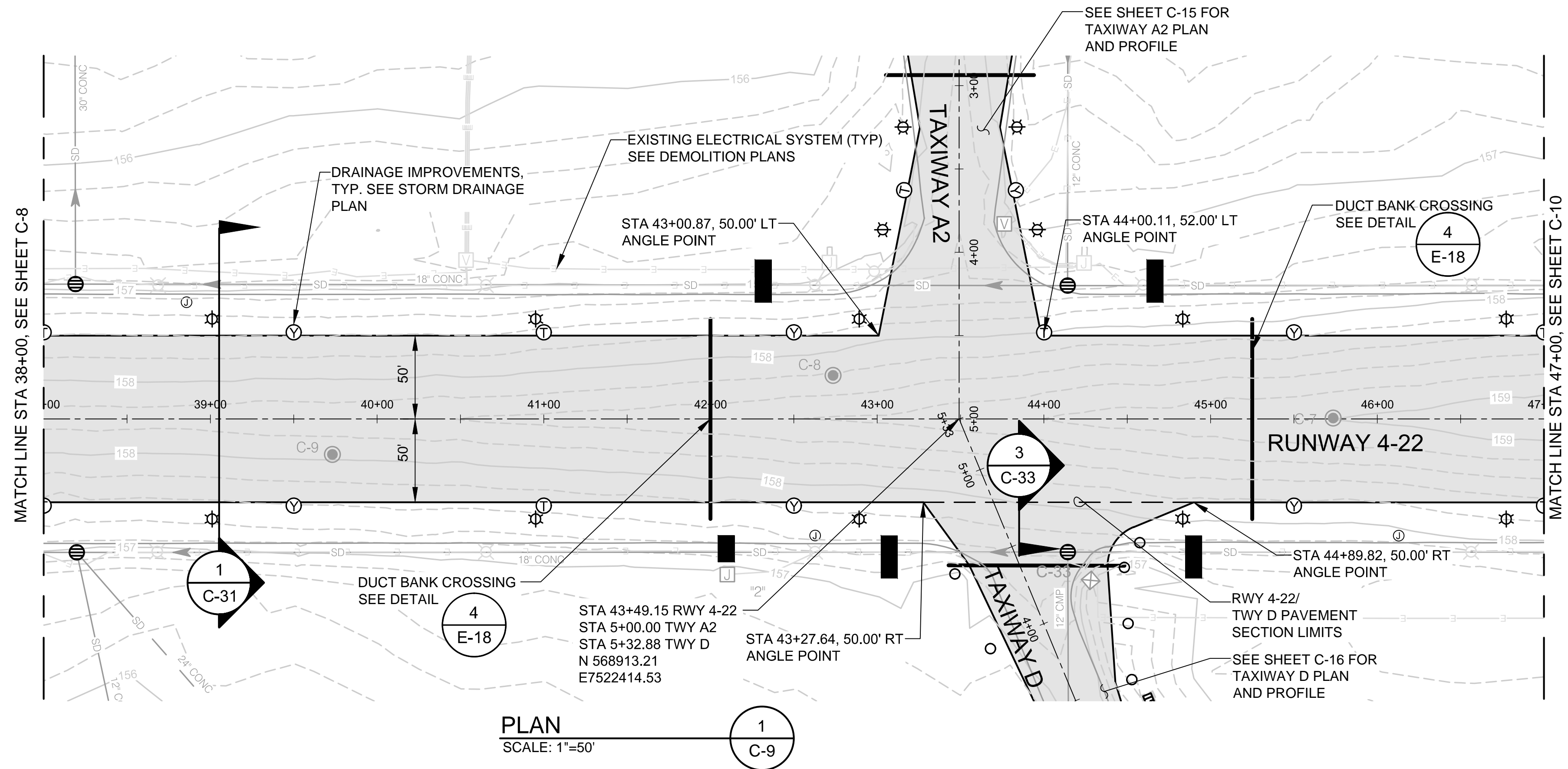
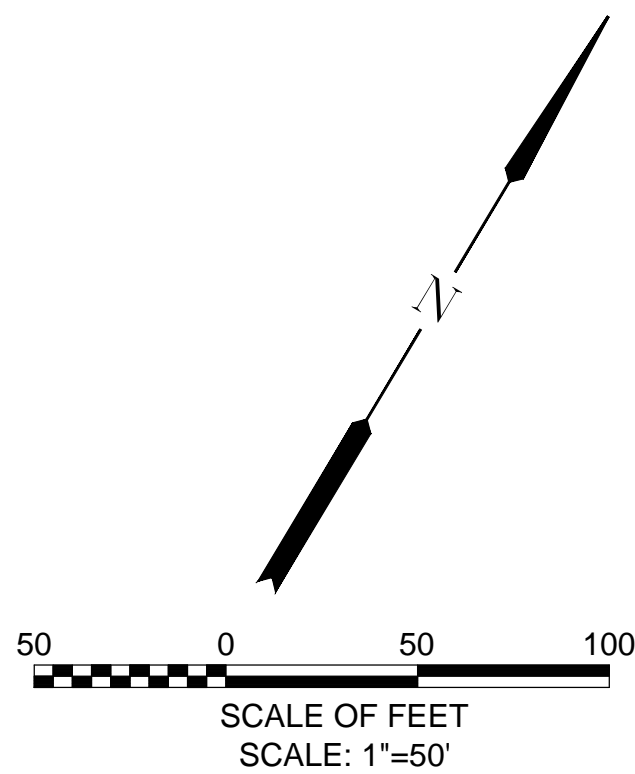
PROJECT NO: 40228.008.03

DESIGNED BY: BFC
DRAWN BY: BMV
CHECKED BY: JNR
SCALE: AS NOTED

CITY OF MCMINNVILLE
MCMINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

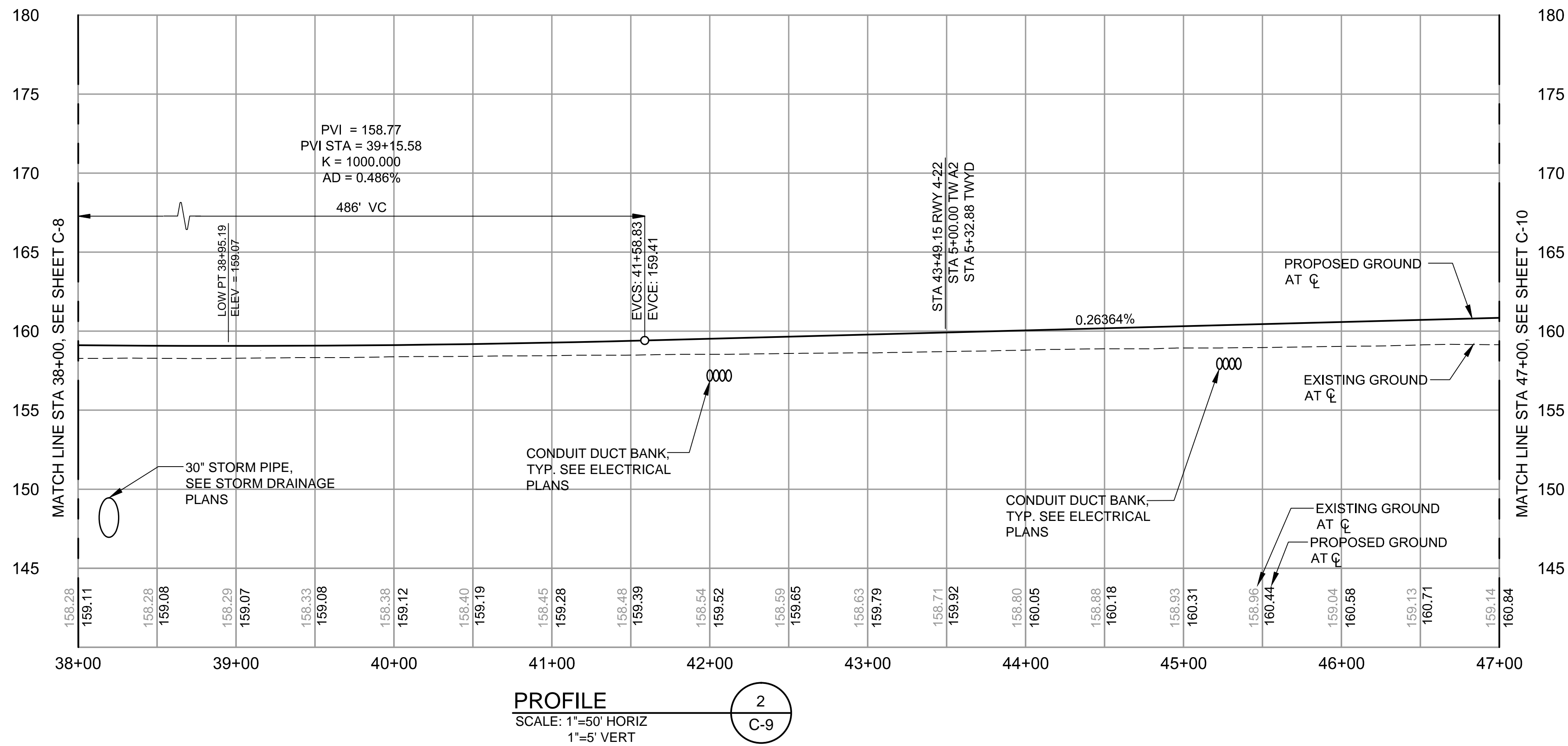
RUNWAY 4-22 PLAN AND PROFILE
STA 28+00 TO STA 38+00

DRAWING NO. C-8
SHEET NO. 18 OF 80



NOTE:

1. ALL GEOMETRY BASED ON RUNWAY 4-22 CENTERLINE ALIGNMENT UNLESS OTHERWISE NOTED.

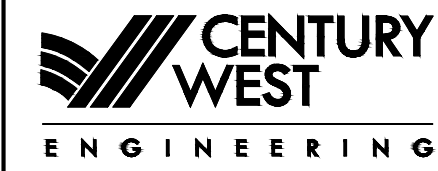


S:\Municipal\Projects\40228 City of McMinnville\008\03\...CADD\...Working Drawings\C-09 PLAN AND PROFILE.dwg



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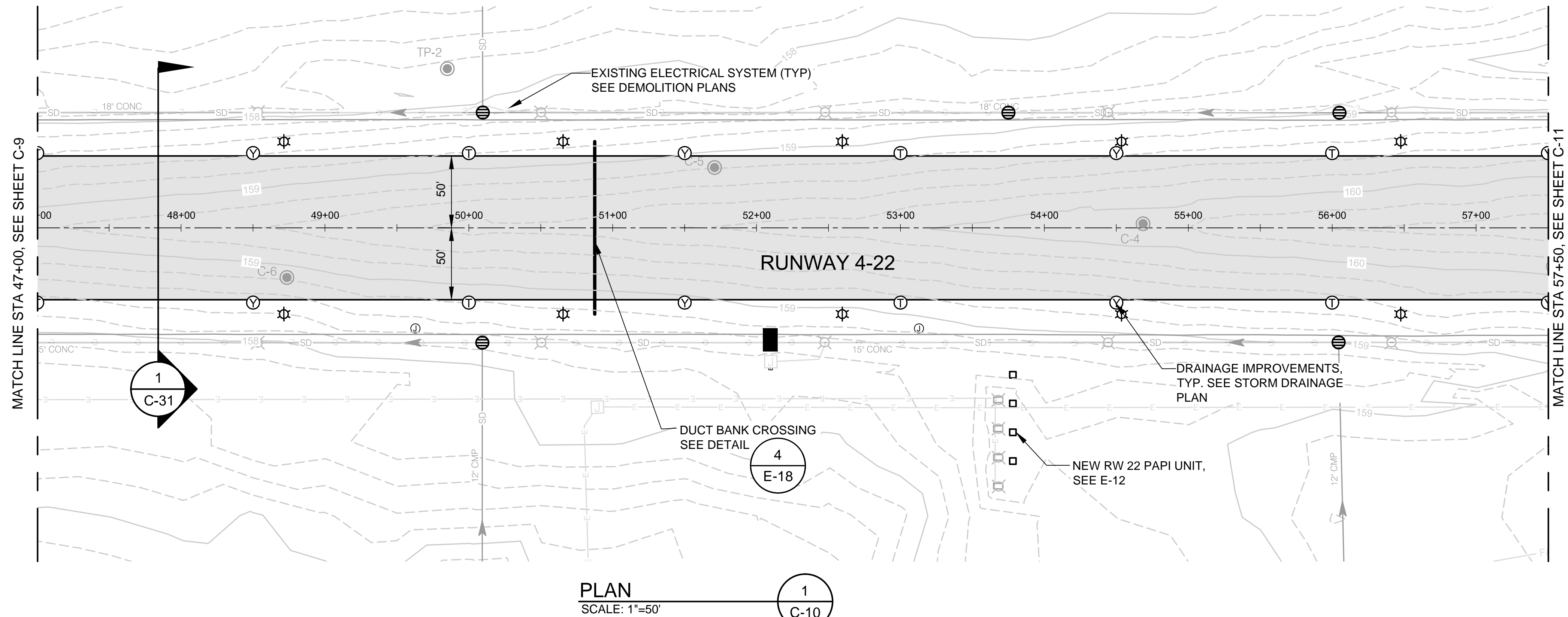
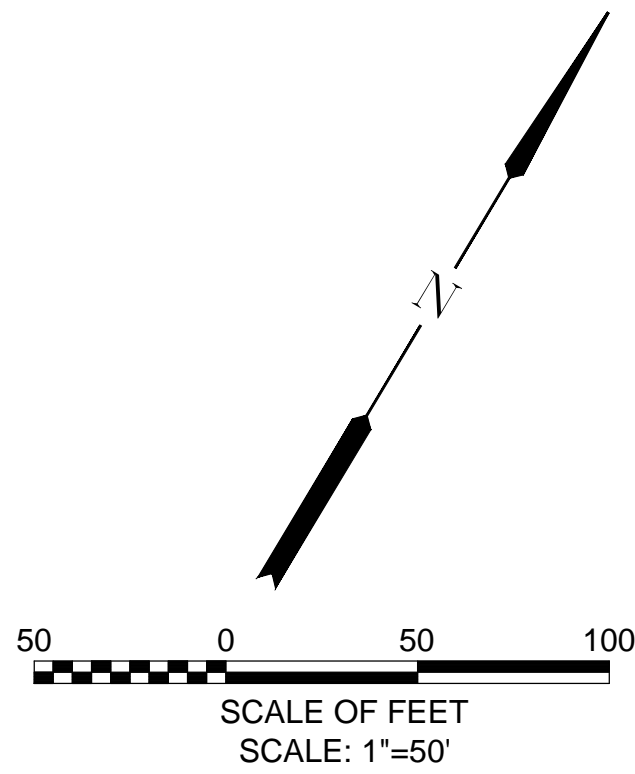
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PROJECT NO: 40228.008.03

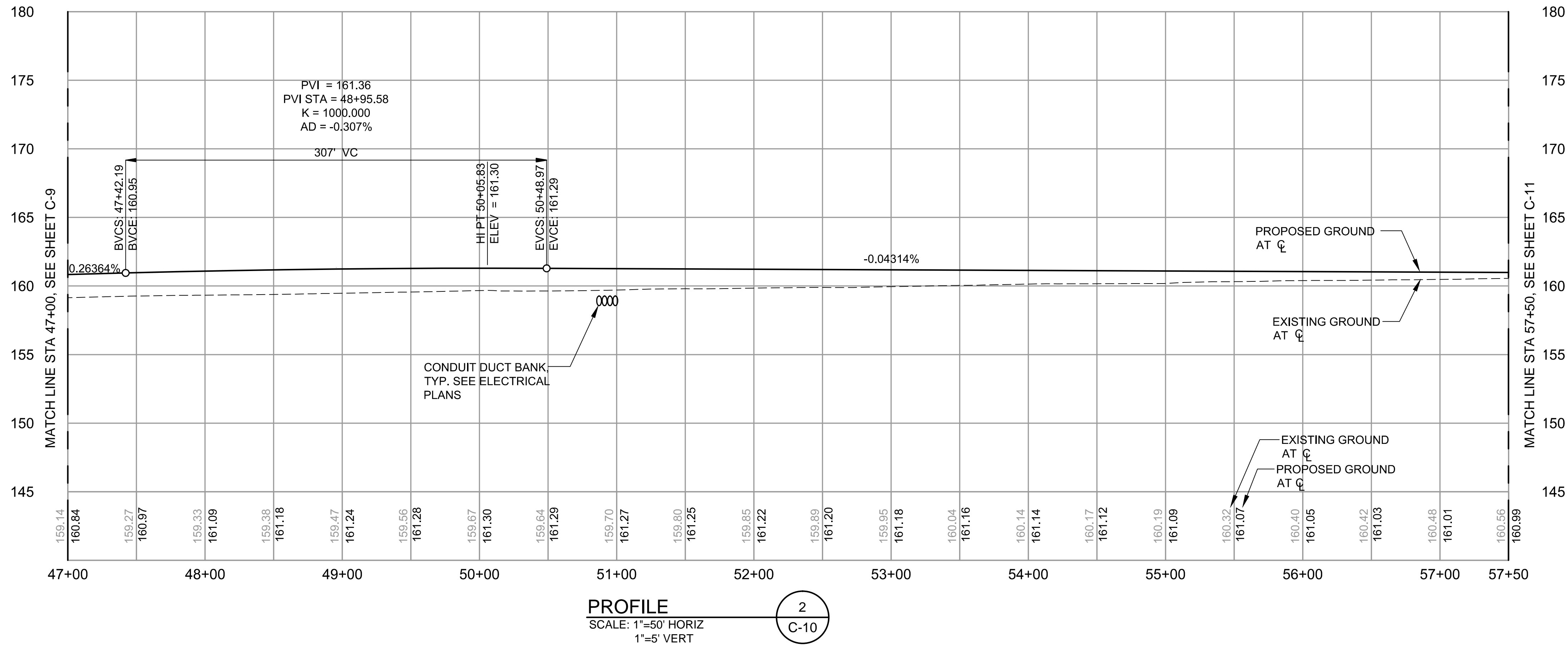
DESIGNED BY: BFC
DRAWN BY: BMV
CHECKED BY: JNR
SCALE: AS NOTED

CITY OF MCMINNVILLE MCMINNVILLE MUNICIPAL AIRPORT RUNWAY 4-22 REHABILITATION PROJECT		DRAWING NO. C-9
RUNWAY 4-22 PLAN AND PROFILE STA 38+00 TO STA 47+00		SHEET NO. 19 OF 80




NOTE:

1. ALL GEOMETRY BASED ON RUNWAY 4-22 CENTERLINE ALIGNMENT UNLESS OTHERWISE NOTED.




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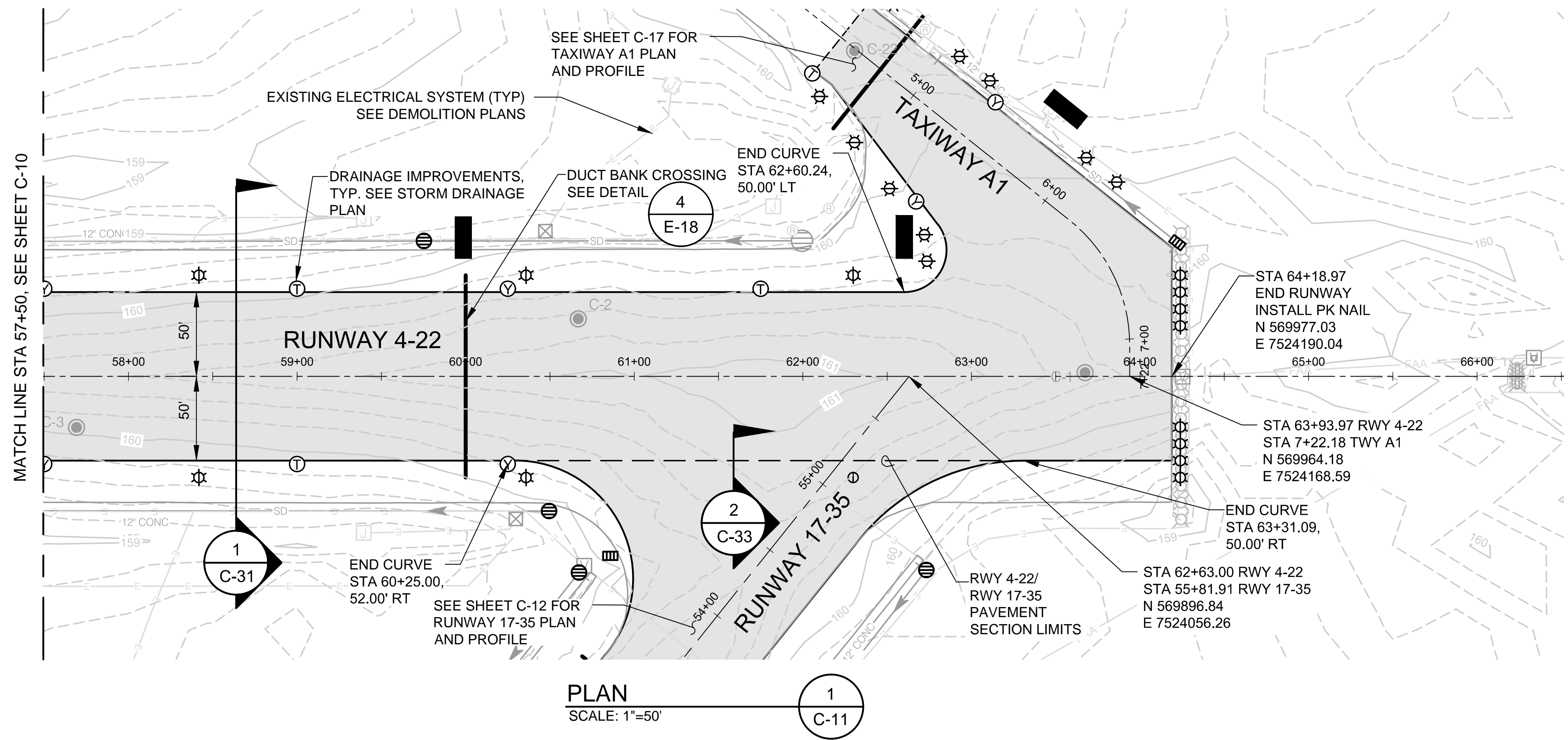
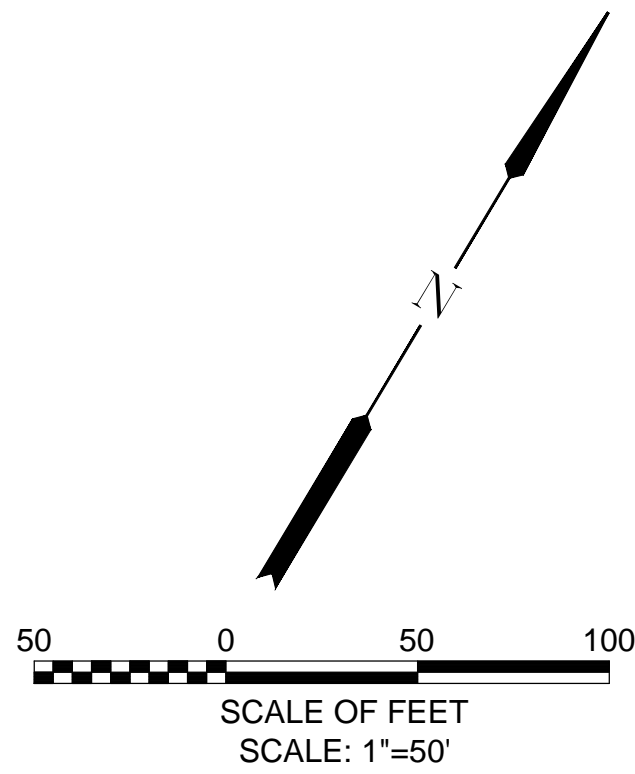
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DATE: APRIL 2016

PROJECT NO: 40228.008.03

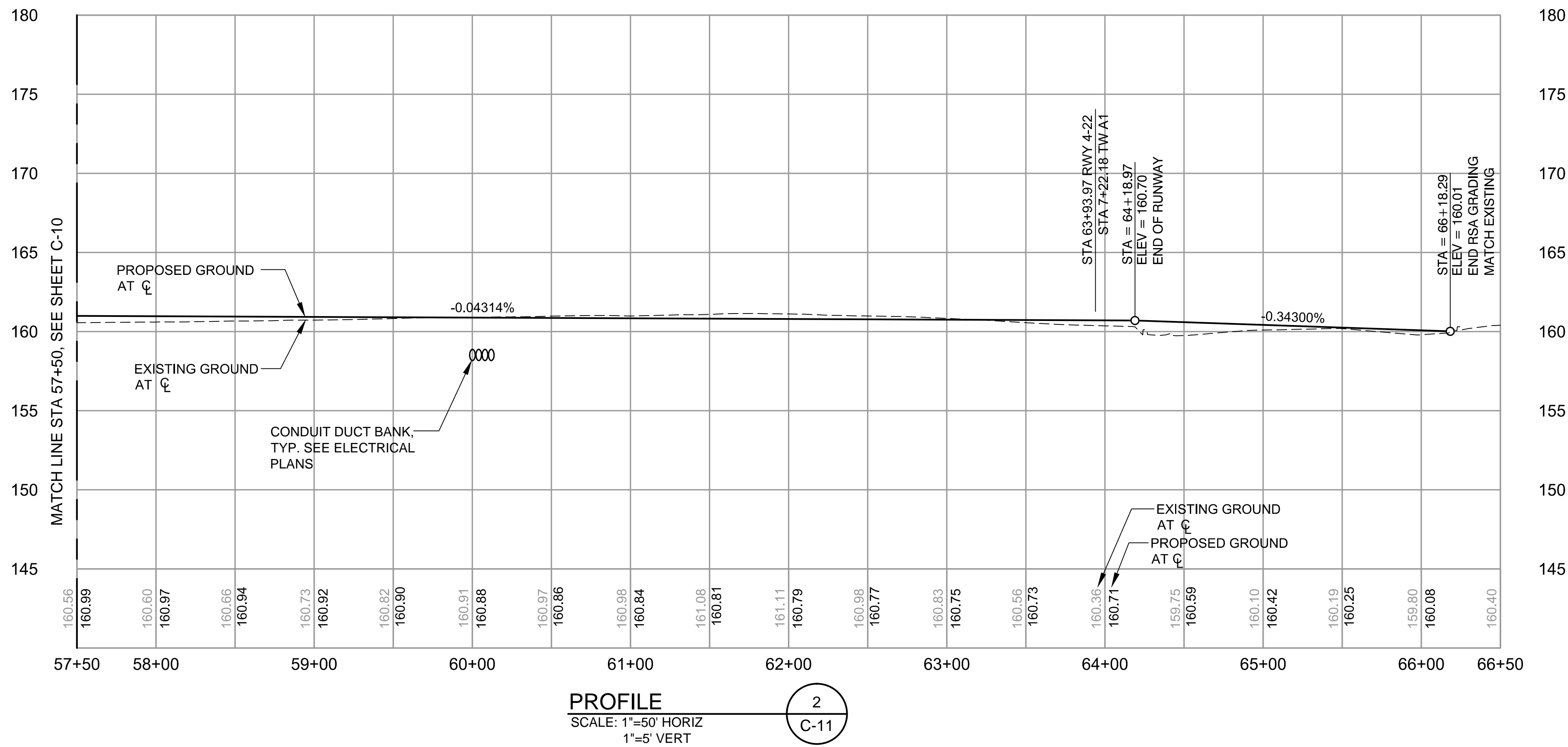
DESIGNED BY: BFC
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CHECKED BY: JNR
SCALE: AS NOTED

CITY OF MCMINNVILLE MCMINNVILLE MUNICIPAL AIRPORT RUNWAY 4-22 REHABILITATION PROJECT		DRAWING NO. C-10
RUNWAY 4-22 PLAN AND PROFILE STA 47+00 TO STA 57+50		SHEET NO. 20 OF 80



NOTE:

1. ALL GEOMETRY BASED ON RUNWAY 4-22 CENTERLINE ALIGNMENT UNLESS OTHERWISE NOTED.




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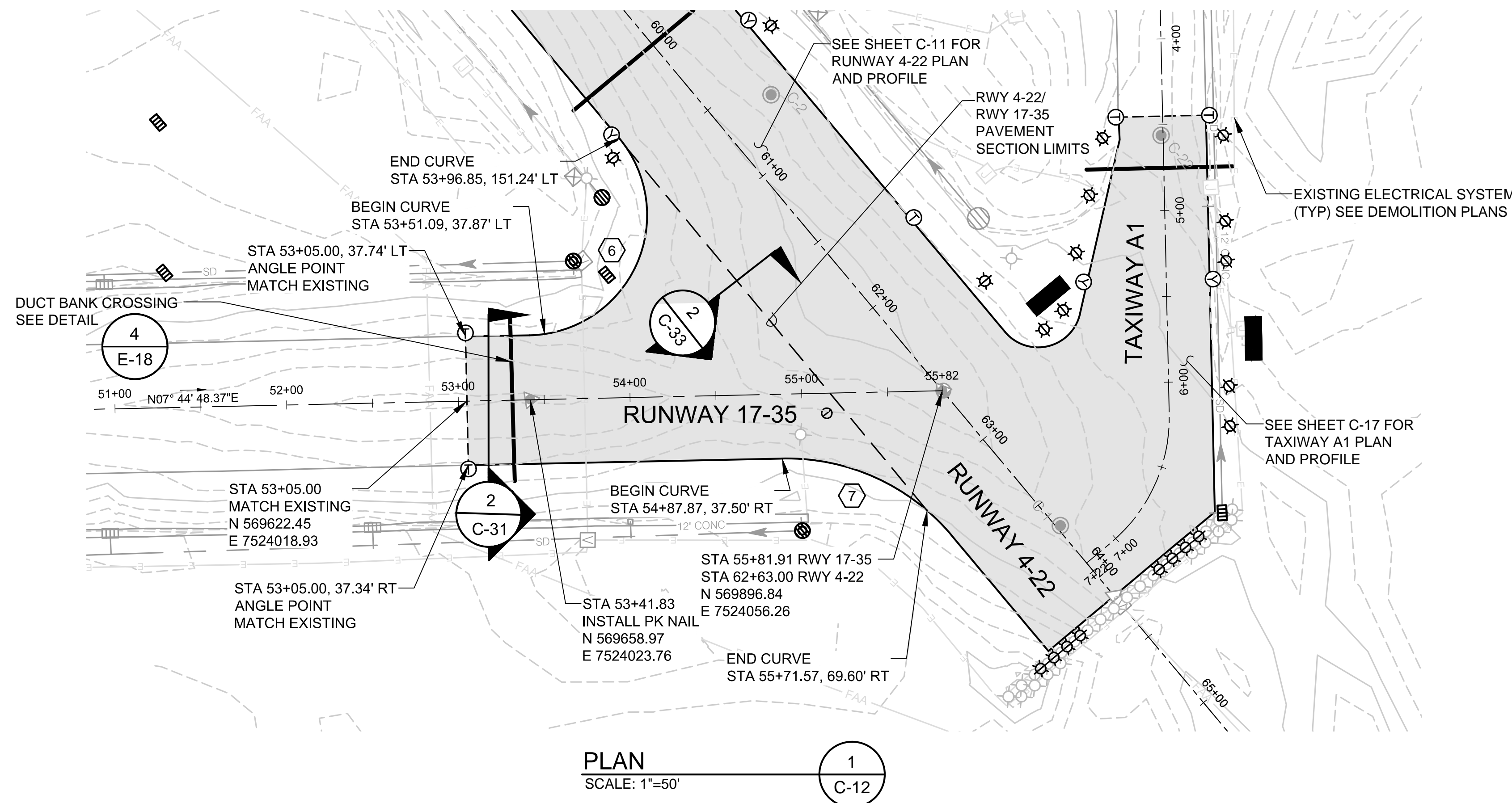
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PROJECT NO: 40228.008.03

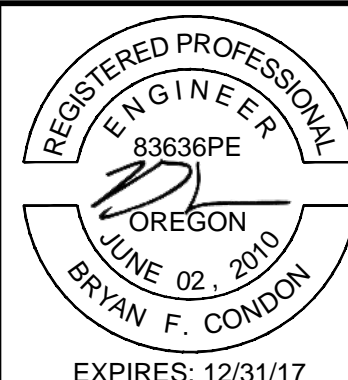
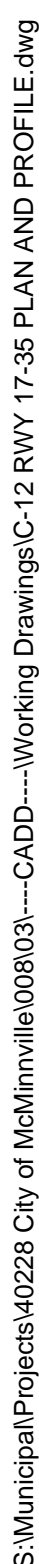
DESIGNED BY: BFC
DRAWN BY: BMV
CHECKED BY: JNR
SCALE: AS NOTED


CITY OF MCMINNVILLE MCMINNVILLE MUNICIPAL AIRPORT RUNWAY 4-22 REHABILITATION PROJECT		DRAWING NO. C-11
RUNWAY 4-22 PLAN AND PROFILE STA 57+50 TO STA 66+50		SHEET NO. 21 OF 80



NOTE:

1. ALL GEOMETRY BASED ON RUNWAY 17-35 CENTERLINE ALIGNMENT UNLESS OTHERWISE NOTED.



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0"  1"
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PROJECT NO:	40228.008.03
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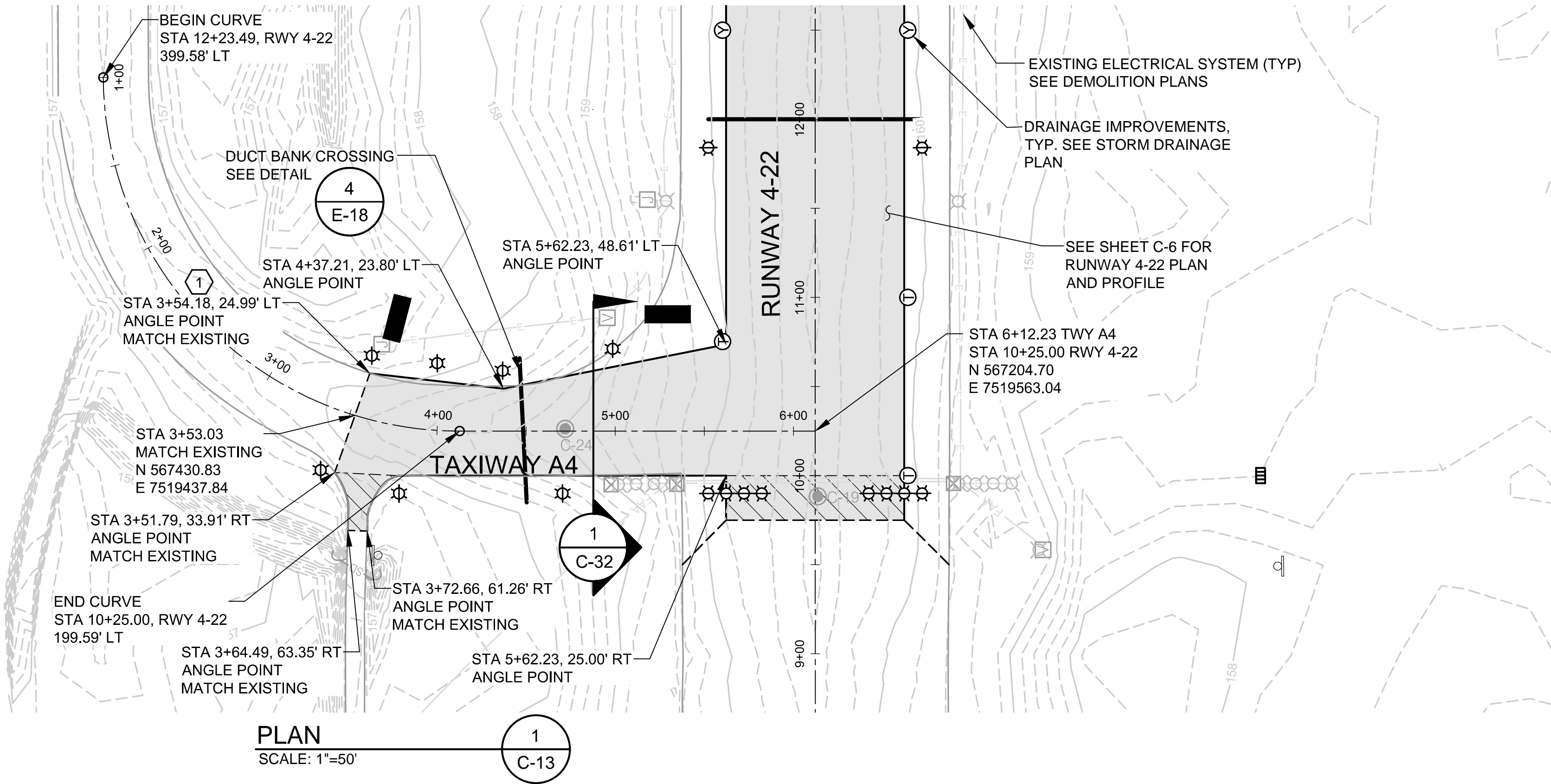
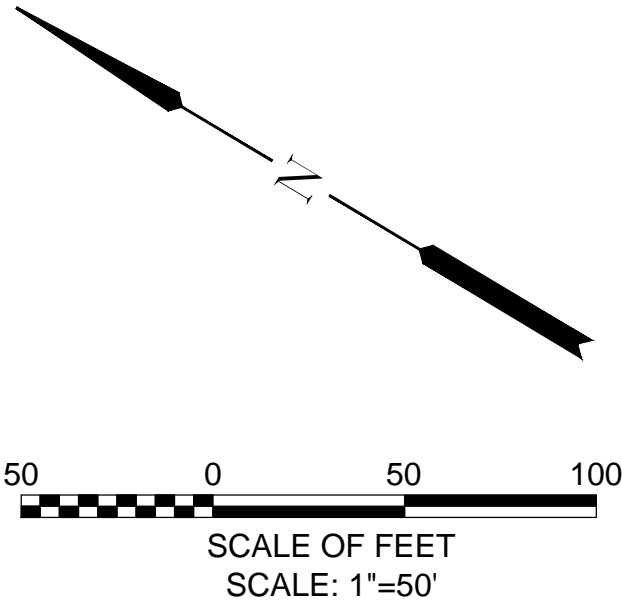
DESIGNED BY:	BFC
DRAWN BY:	BMV
CHECKED BY:	JNR
SCALE:	AS NOTED

CITY OF MC MINNVILLE
MC MINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

RUNWAY 17-35 PLAN AND PROFILE STA 52+50 TO STA 55+82

DRAWING NO.
C-12
SHEET NO.
22 OF 80

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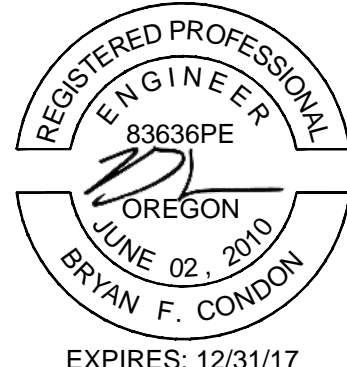
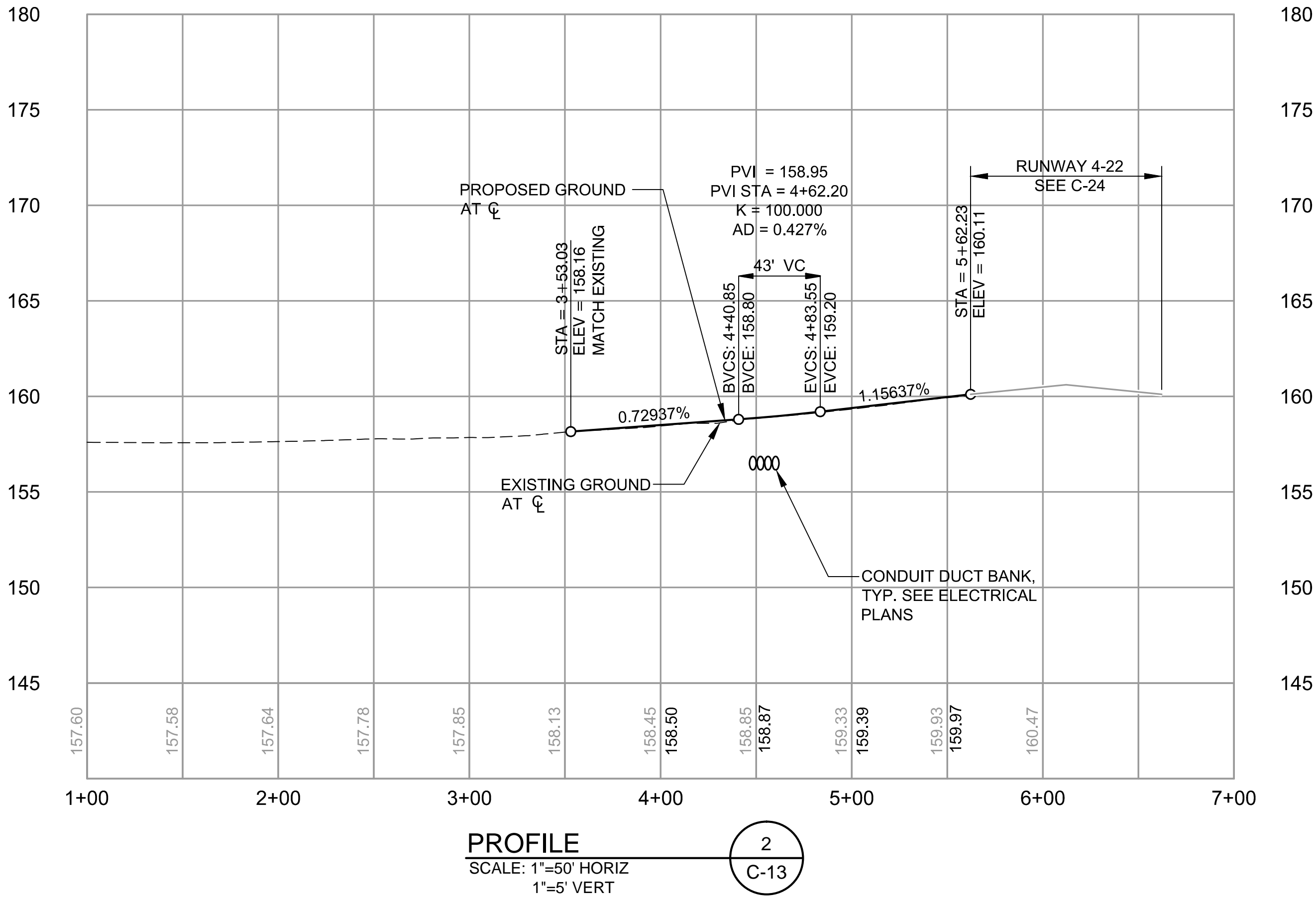
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CURVE	RADIUS	DELTA	LENGTH
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NOTE:

1. ALL GEOMETRY BASED ON TAXIWAY A4 CENTERLINE ALIGNMENT UNLESS OTHERWISE NOTED.


LEGEND

ASPHALT CONCRETE PAVING ONLY (NO FULL DEPTH RECONSTRUCTION).

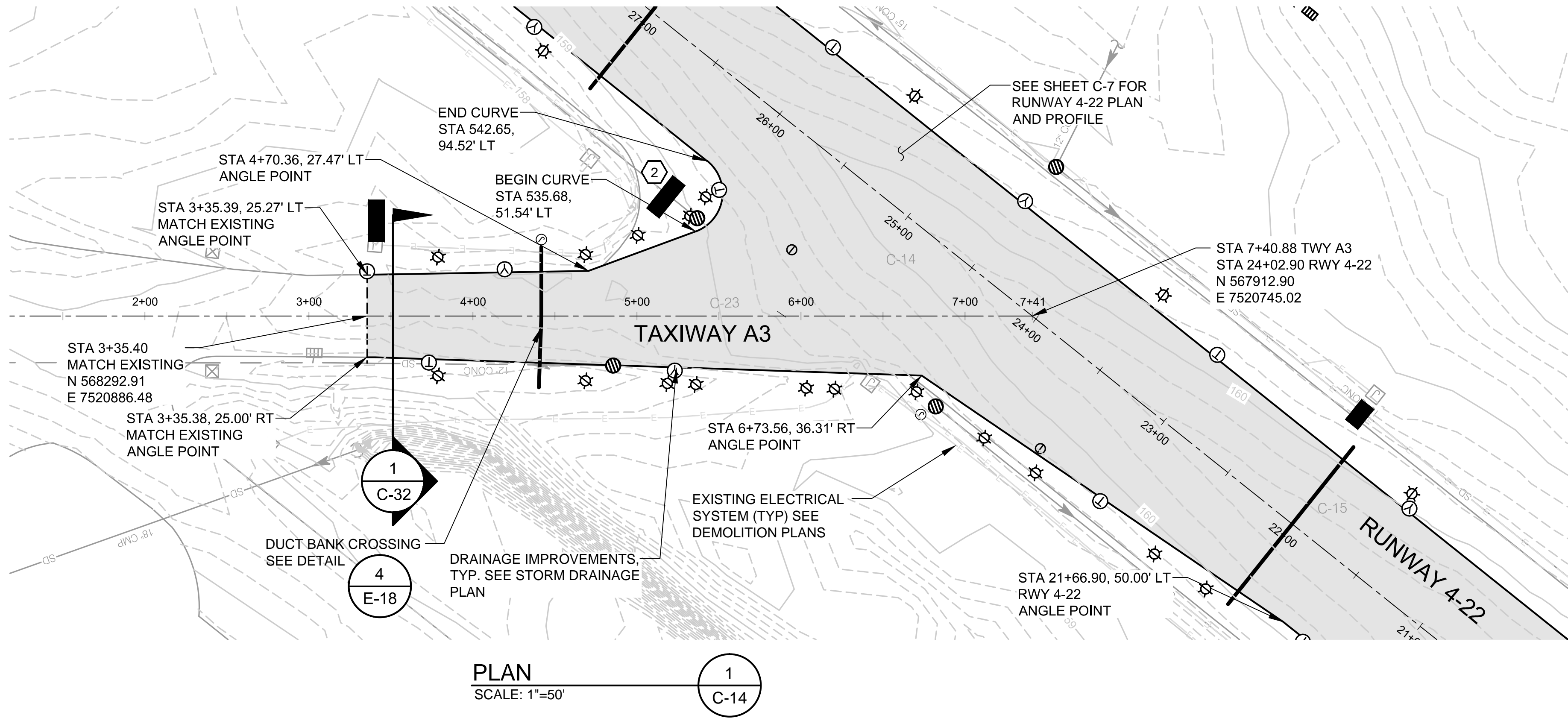
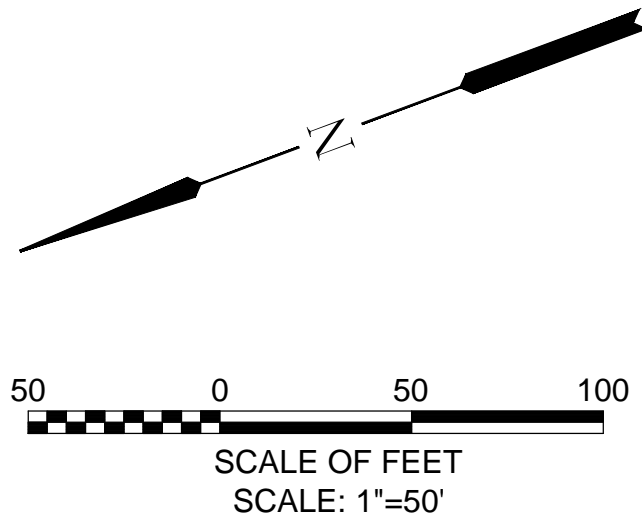


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				DRAWN BY: BMV
				CHECKED BY: JNR
				SCALE: AS NOTED
DATE: APRIL 2016		PROJECT NO: 40228.008.03		

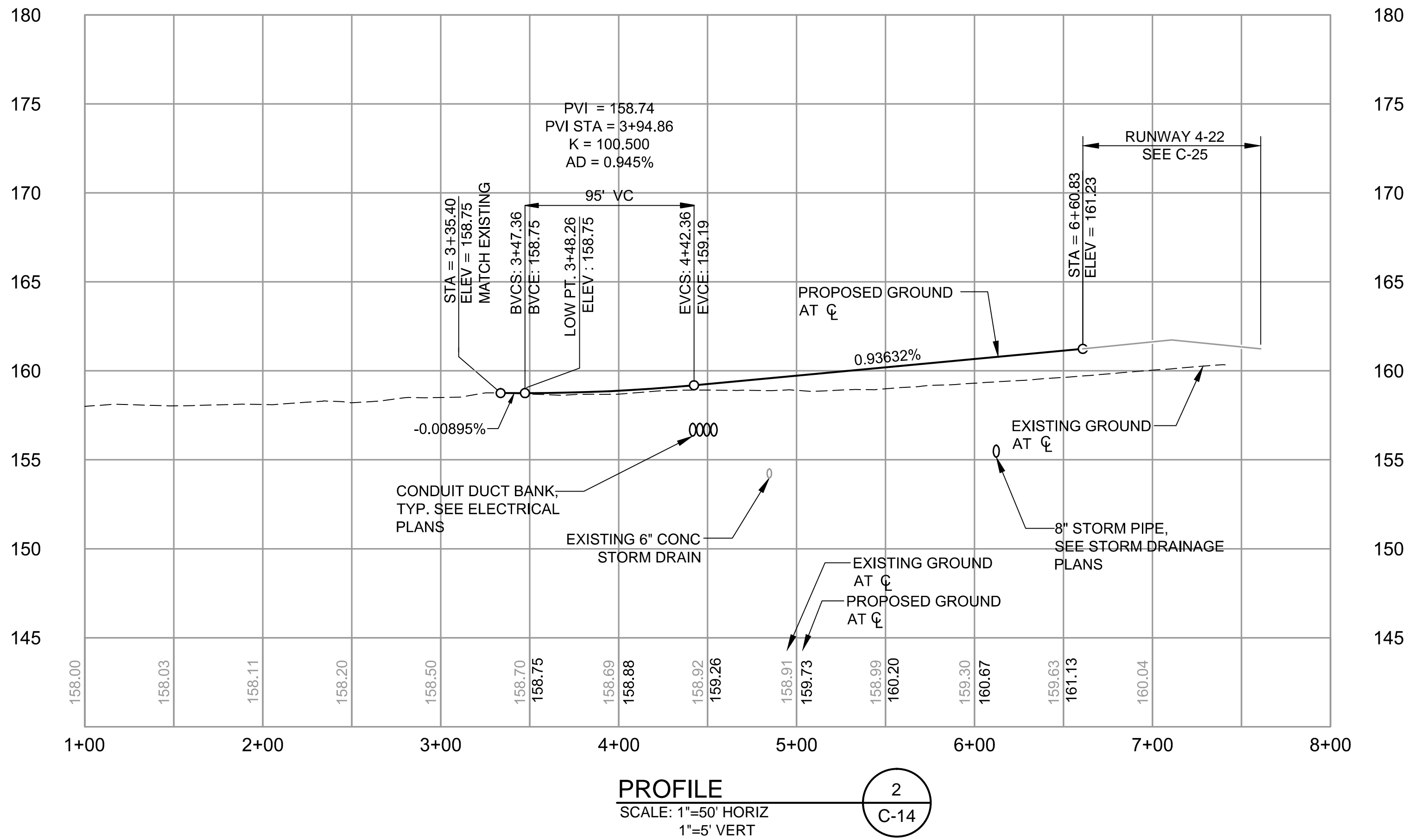
CITY OF MCMINNVILLE MCMINNVILLE MUNICIPAL AIRPORT RUNWAY 4-22 REHABILITATION PROJECT		DRAWING NO. C-13
TAXIWAY A4 PLAN AND PROFILE STA 1+00 TO STA 7+00		SHEET NO. 23 OF 80



CURVE DATA			
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NOTE:

1. ALL GEOMETRY BASED ON TAXIWAY A3 CENTERLINE ALIGNMENT UNLESS OTHERWISE NOTED.




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0" = 1"
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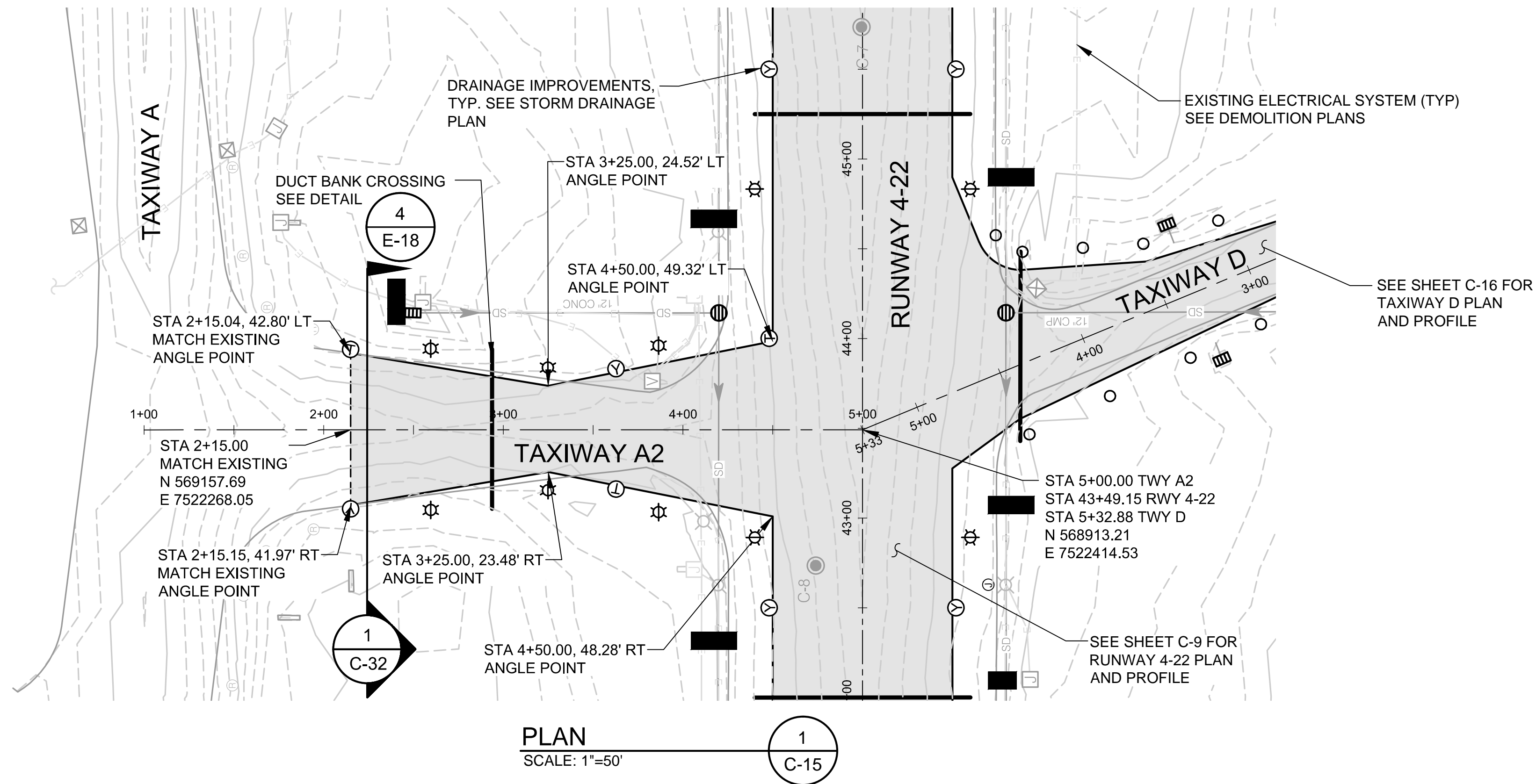
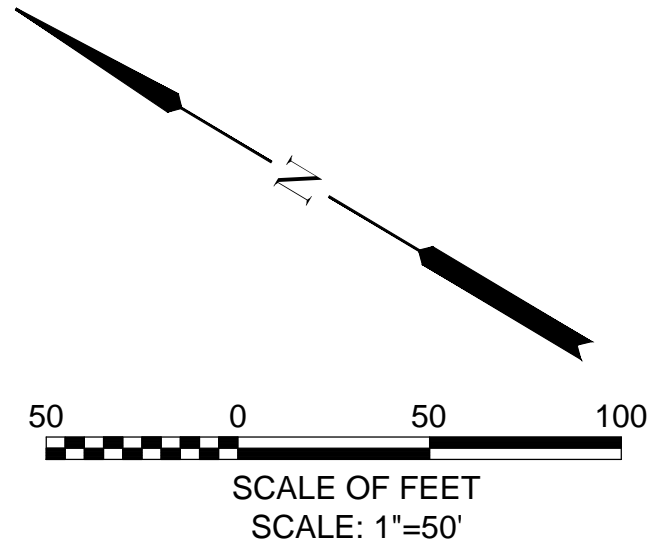
PORTLAND OFFICE
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DATE: APRIL 2016

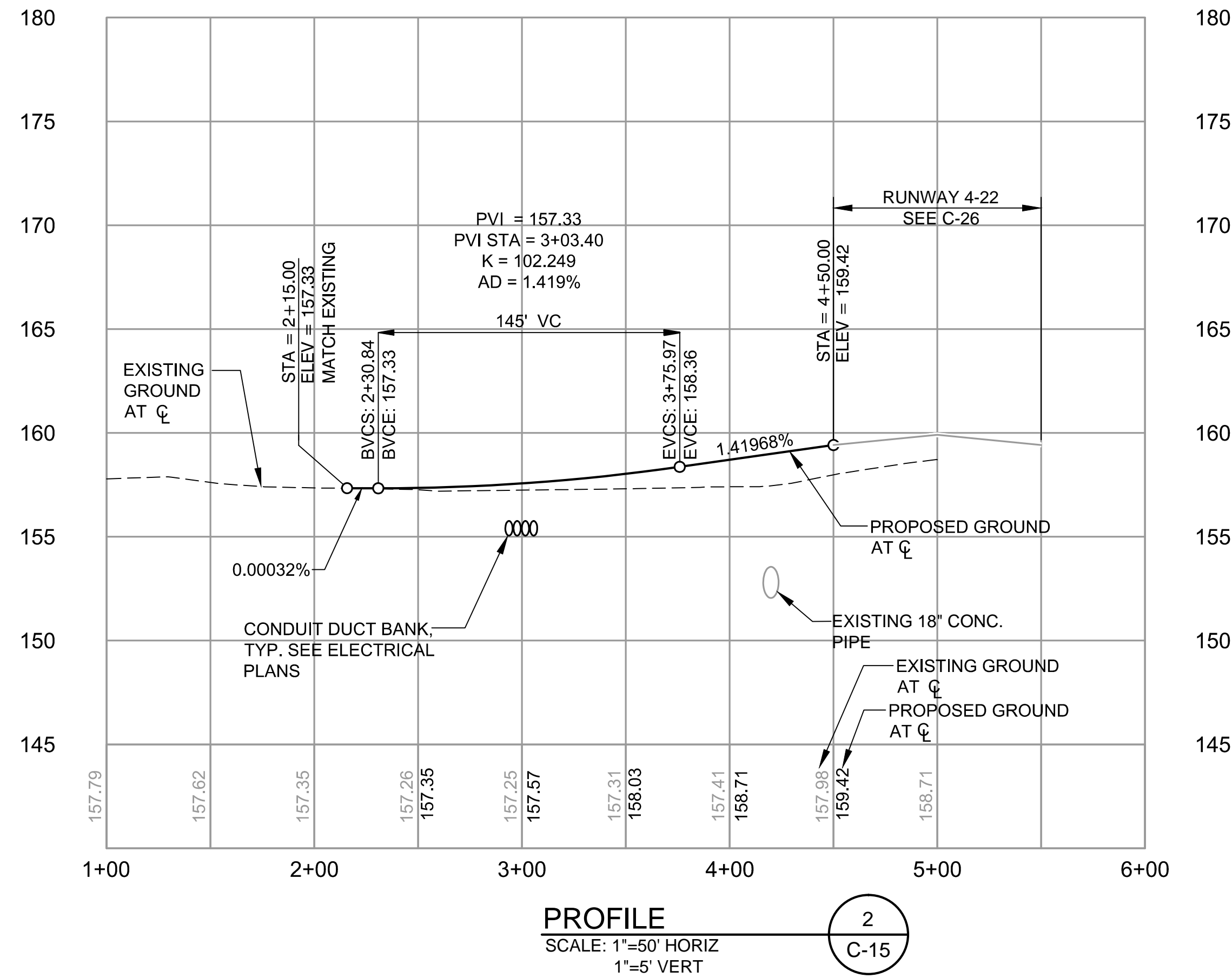
PROJECT NO: 40228.008.03

DESIGNED BY: BFC
DRAWN BY: BMV
CHECKED BY: JNR
SCALE: AS NOTED

CITY OF MCMINNVILLE MCMINNVILLE MUNICIPAL AIRPORT RUNWAY 4-22 REHABILITATION PROJECT		DRAWING NO. C-14
TAXIWAY A3 PLAN AND PROFILE STA 1+00 TO STA 8+00		SHEET NO. 24 OF 80



NOTE:
1. ALL GEOMETRY BASED ON TAXIWAY A2 CENTERLINE ALIGNMENT UNLESS OTHERWISE NOTED.




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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

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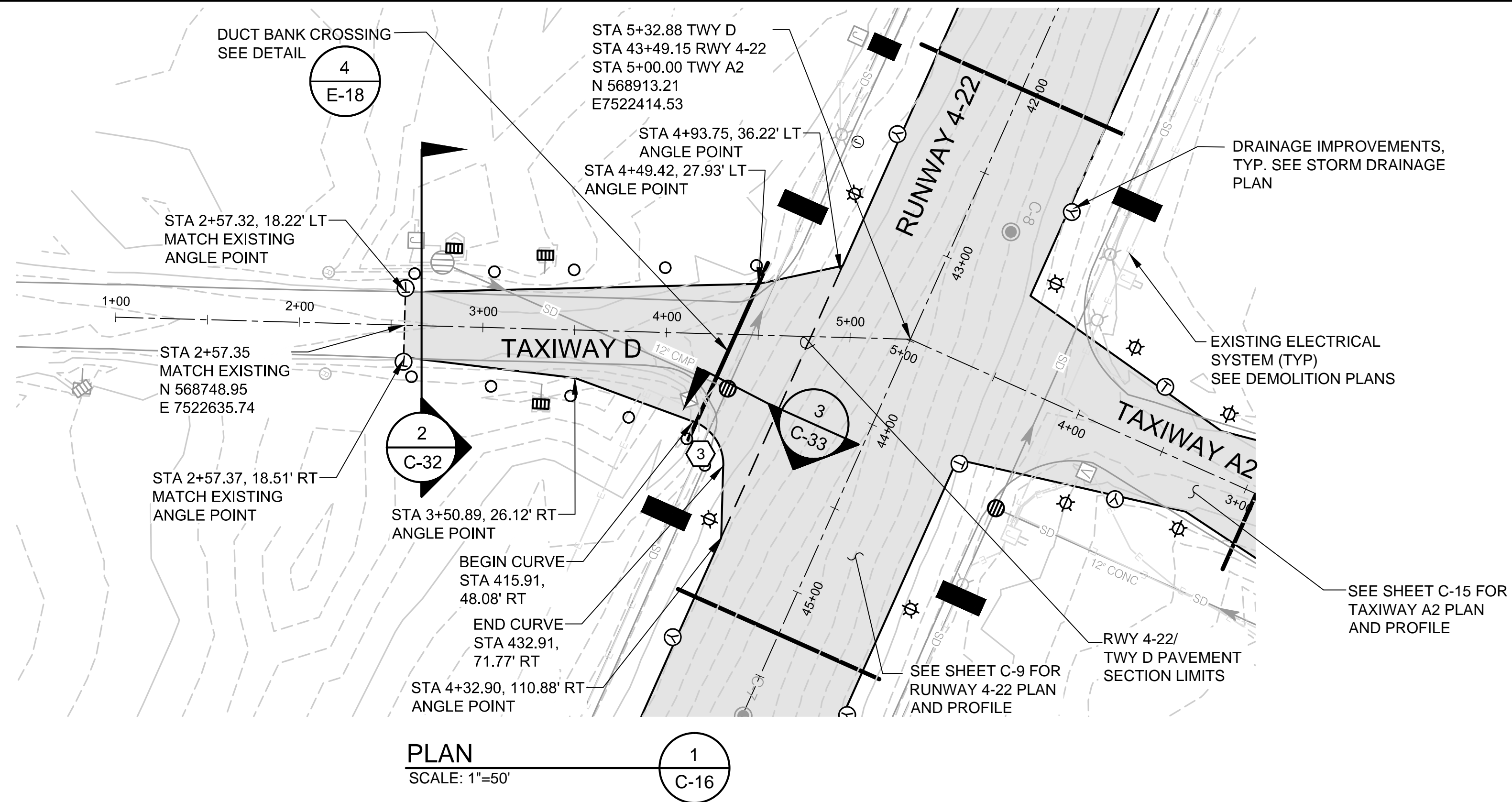
PORTLAND OFFICE
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DATE: APRIL 2016

PROJECT NO: 40228.008.03

DESIGNED BY: BFC
DRAWN BY: BMV
CHECKED BY: JNR
SCALE: AS NOTED


CITY OF MCMINNVILLE MCMINNVILLE MUNICIPAL AIRPORT RUNWAY 4-22 REHABILITATION PROJECT		DRAWING NO. C-15
TAXIWAY A2 PLAN AND PROFILE STA 1+00 TO STA 6+00		SHEET NO. 25 OF 80



NOTE:

1. ALL GEOMETRY BASED ON TAXIWAY D CENTERLINE ALIGNMENT UNLESS OTHERWISE NOTED.



VERIFY SCALES
BAR IS ONE INCH ON
ORIGINAL DRAWING.
0"  1"
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SCALES ACCORDINGLY.

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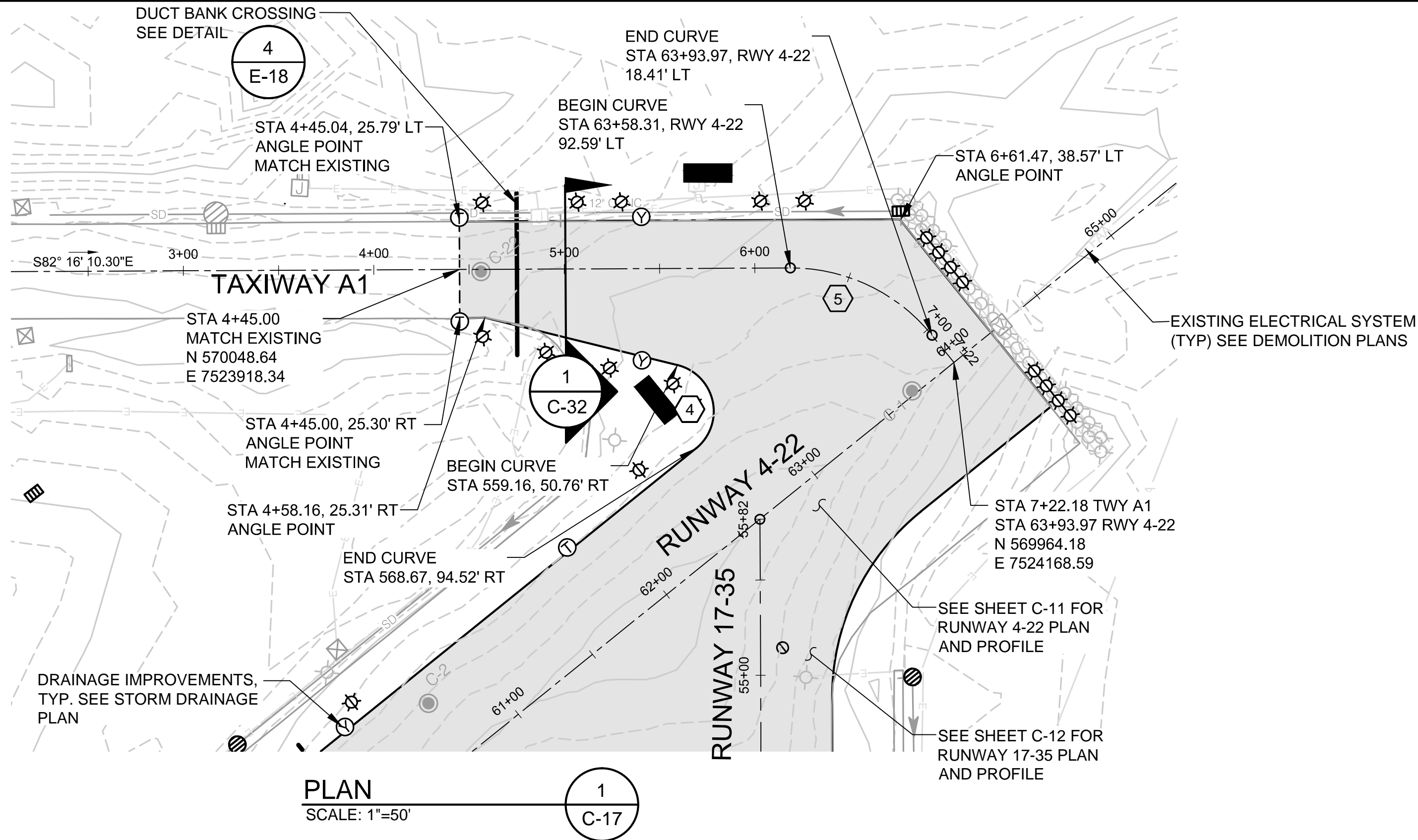
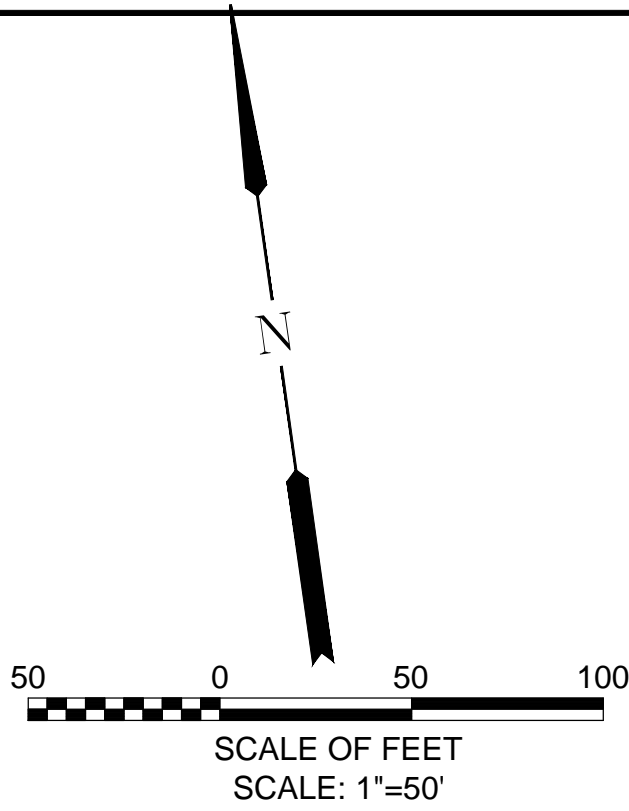
PROJECT NO:	40228.008.03
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DESIGNED BY:	BFC
DRAWN BY:	BMV
CHECKED BY:	JNR
SCALE:	AS NOTED

TAXIWAY D PLAN AND PROFILE
STA 1+00 TO STA 6+00

DRAWING NO.
C-16
SHEET NO.
26 OF 80

S:\Municipal\Projects\40228 City of McMinnville\008\03\----CADD\----Working Drawings\C-17 TWY A1 PLAN AND PROFILE.dwg

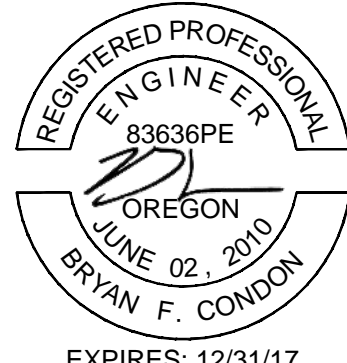
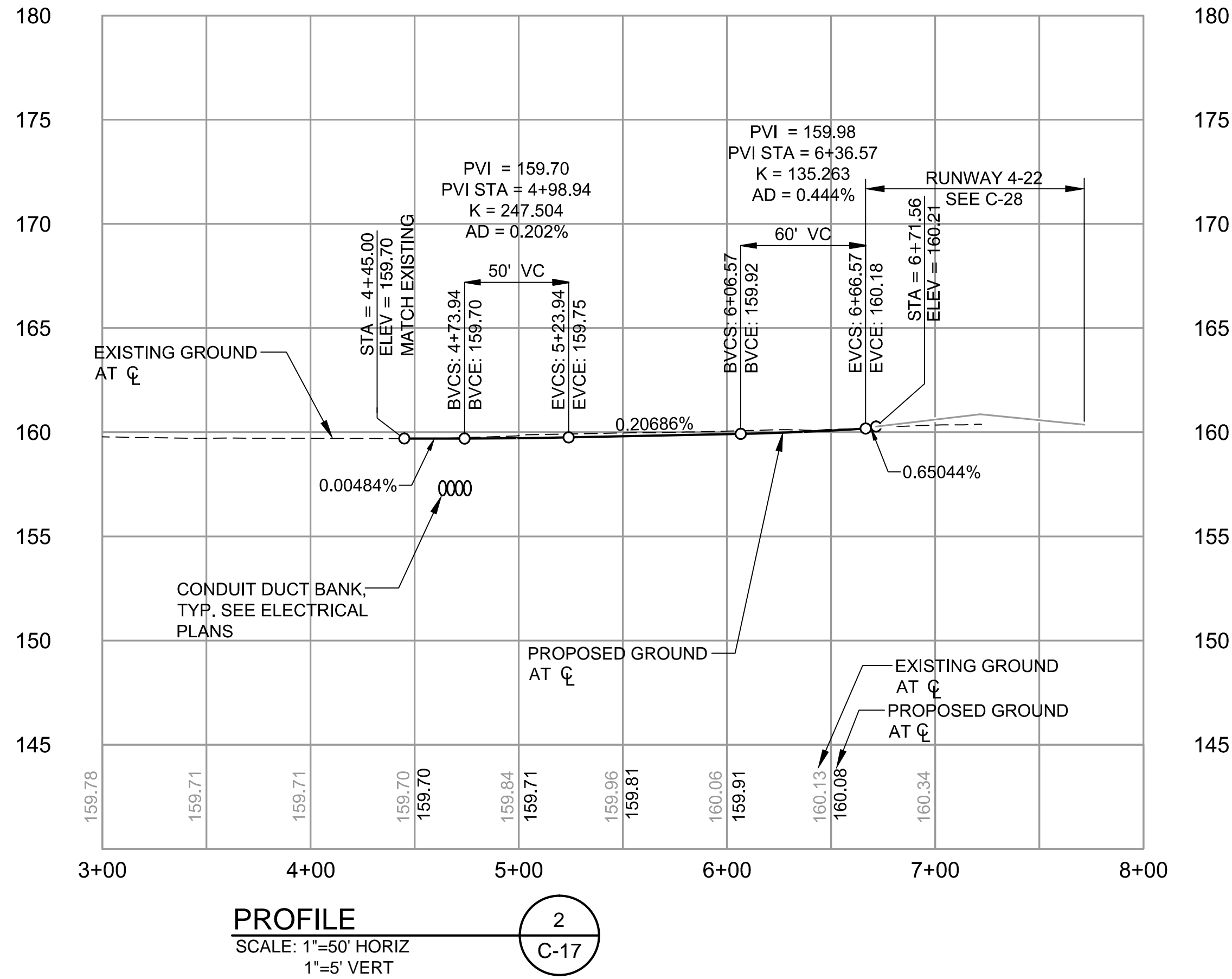


CURVE DATA

CURVE	RADIUS	DELTA	LENGTH
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5	95.00'	51°20'27"	85.13'


NOTE:

1. ALL GEOMETRY BASED ON TAXIWAY A1 CENTERLINE ALIGNMENT UNLESS OTHERWISE NOTED.



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0" 1"
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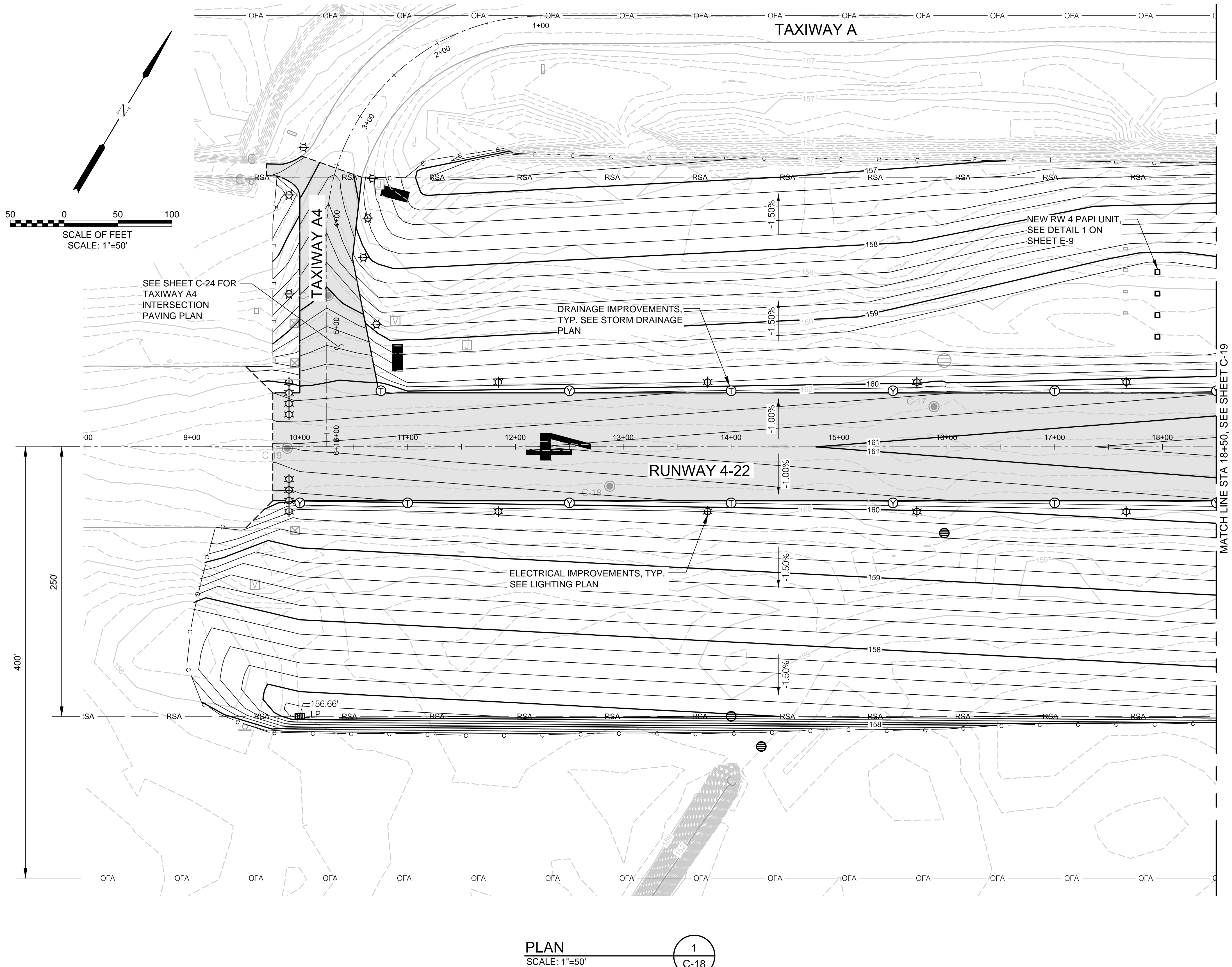
DATE: APRIL 2016

PROJECT NO: 40228.008.03

DESIGNED BY: BFC
DRAWN BY: BMV
CHECKED BY: JNR
SCALE: AS NOTED

CITY OF MCMINNVILLE MCMINNVILLE MUNICIPAL AIRPORT RUNWAY 4-22 REHABILITATION PROJECT		DRAWING NO. C-17
TAXIWAY A1 PLAN AND PROFILE STA 3+00 TO STA 8+00		SHEET NO. 27 OF 80

S:\Municipal\Projects\40228 City of McMinnville\008\03\----CADD\----Working Drawings\C-18 RW 4-22 PAVING AND GRADING-REV.A.dwg



LEGEND

NEW PAVEMENT	
EXISTING PAVEMENT	
EXISTING INDEX CONTOUR	
EXISTING 0.2' CONTOUR	
NEW INDEX CONTOURS	
NEW 0.2' CONTOURS	
SAWCUT EXISTING PAVEMENT	
CUT LINE	
FILL LINE	
RUNWAY OBJECT FREE AREA	
RUNWAY SAFETY AREA	
GEOTECHNICAL TEST	
LOCATION - SPECIFIC GRADE	
NEW CLEANOUT	
NEW STORM MANHOLE	
NEW CATCH BASIN	
NEW GUIDANCE SIGN	
NEW EDGE LIGHT	
EXISTING STORM MANHOLE/CATCH BASIN	
EXISTING AREA DRAIN	
EXISTING UTILITY VAULT	
EXISTING JUNCTION BASE CAN	
EXISTING DUCT MARKER	



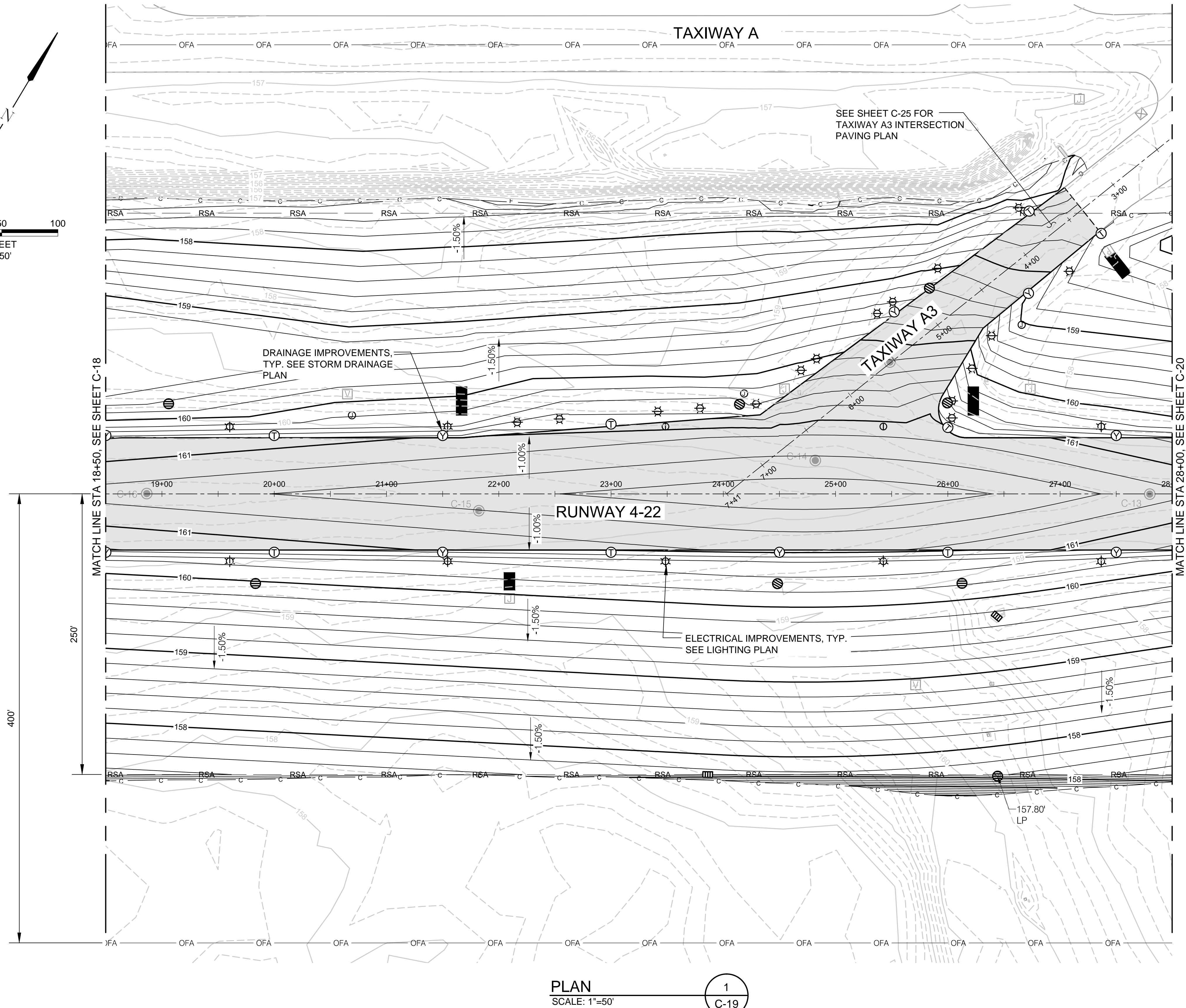
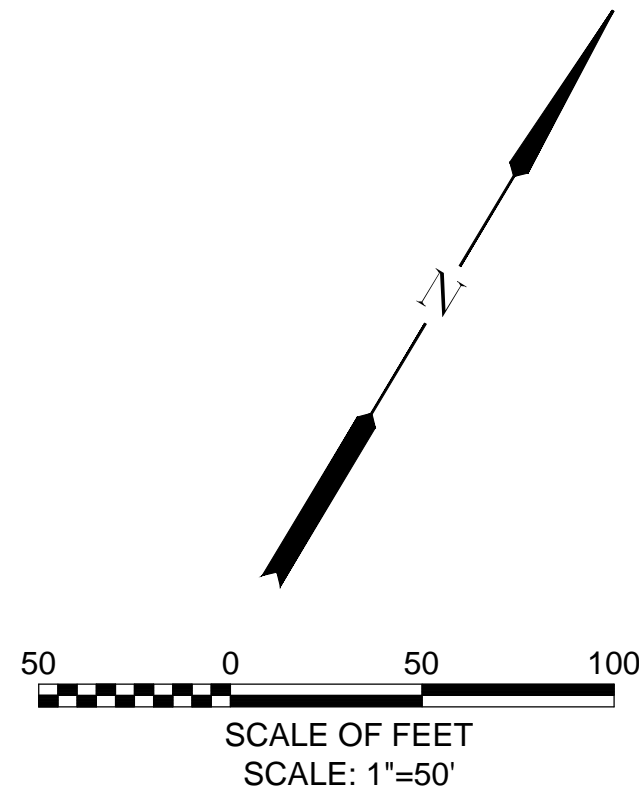
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DATE:	APRIL 2016	PROJECT NO: 40228.008.03

DESIGNED BY: BFC
DRAWN BY: SLK
CHECKED BY: JNR
SCALE: AS NOTED

CITY OF MCMINNVILLE MCMINNVILLE MUNICIPAL AIRPORT RUNWAY 4-22 REHABILITATION PROJECT		DRAWING NO. C-18
RUNWAY 4-22 PAVING AND GRADING PLAN STA 8+00 TO STA 18+50		SHEET NO. 28 OF 80



LEGEND

- NEW PAVEMENT
- EXISTING PAVEMENT
- EXISTING INDEX CONTOUR
- EXISTING 0.2' CONTOUR
- NEW INDEX CONTOURS
- NEW 0.2' CONTOURS
- SAWCUT EXISTING PAVEMENT
- CUT LINE
- FILL LINE
- RUNWAY OBJECT FREE AREA
- RUNWAY SAFETY AREA
- GEOTECHNICAL TEST
- LOCATION - SPECIFIC GRADE
- NEW CLEANOUT
- NEW STORM MANHOLE
- NEW CATCH BASIN
- NEW GUIDANCE SIGN
- NEW EDGE LIGHT
- NEW JUNCTION CAN
- EXISTING STORM MANHOLE/CATCH BASIN
- EXISTING AREA DRAIN
- EXISTING UTILITY VAULT
- EXISTING JUNCTION BASE CAN
- EXISTING DUCT MARKER

PLAN
SCALE: 1"=50'

S:\Municipal\Projects\40228 City of McMinnville\008\03-CADD-Working Drawings\C-19 RW 4-22 PAVING AND GRADING-REV.A.dwg



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DESIGNED BY:
BFC

DRAWN BY:
SLK

CHECKED BY:
JNR

SCALE:
AS NOTED

DATE:
APRIL 2016

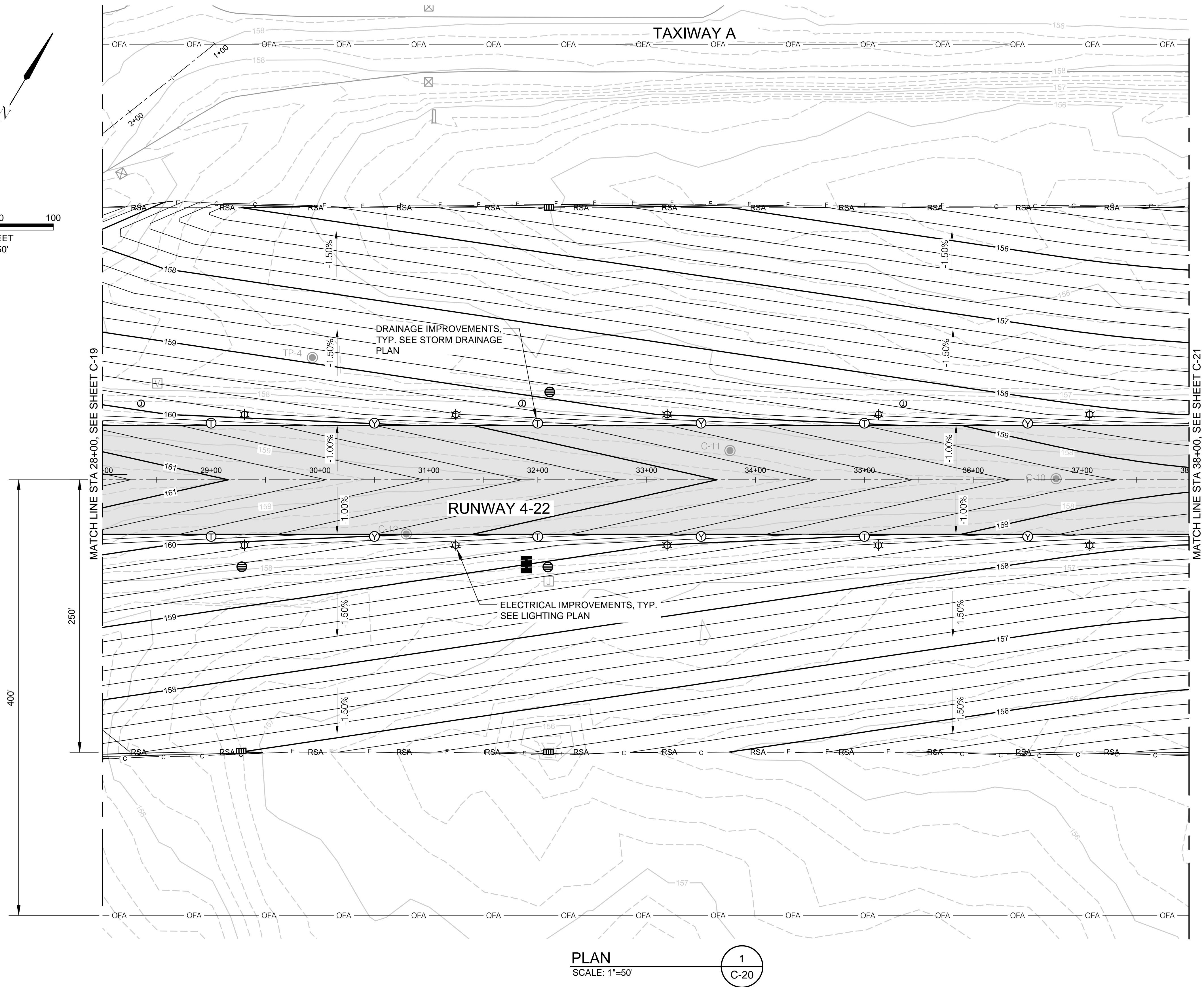
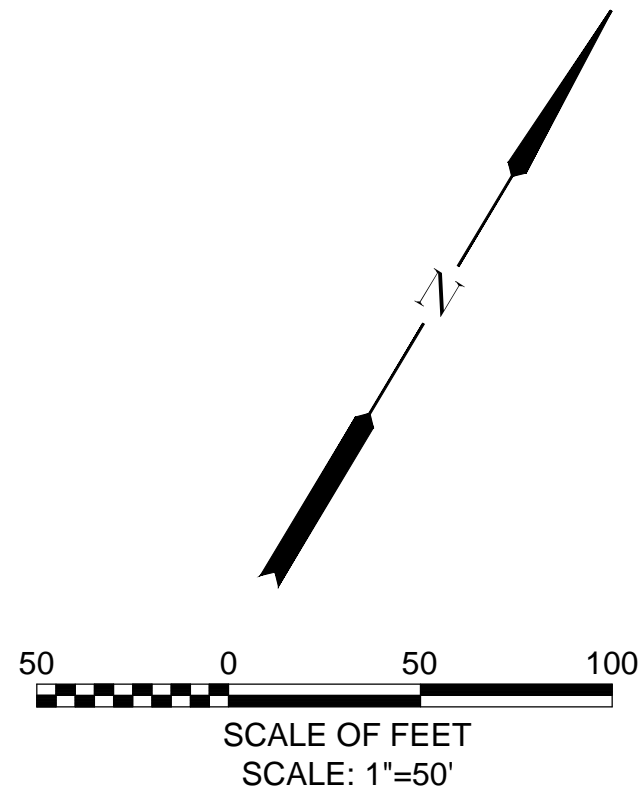
PROJECT NO:
40228.008.03

CITY OF MCMINNVILLE
MCMINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

RUNWAY 4-22 PAVING AND GRADING PLAN
STA 18+50 TO STA 28+00

DRAWING NO.
C-19

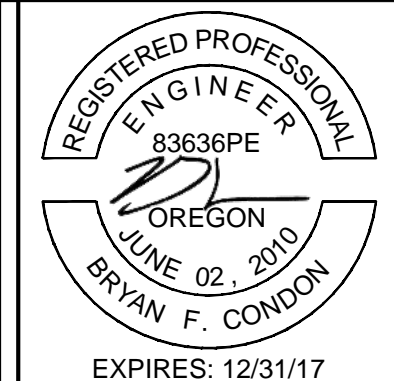
SHEET NO.
29 OF 80



LEGEND


- NEW PAVEMENT
- EXISTING PAVEMENT
- EXISTING INDEX CONTOUR
- EXISTING 0.2' CONTOUR
- NEW INDEX CONTOURS
- NEW 0.2' CONTOURS
- SAWCUT EXISTING PAVEMENT
- CUT LINE
- FILL LINE
- RUNWAY OBJECT FREE AREA
- RUNWAY SAFETY AREA
- GEOTECHNICAL TEST
- LOCATION - SPECIFIC GRADE
- NEW CLEANOUT
- NEW STORM MANHOLE
- NEW CATCH BASIN
- NEW GUIDANCE SIGN
- NEW EDGE LIGHT
- NEW JUNCTION CAN
- EXISTING STORM MANHOLE/CATCH BASIN
- EXISTING AREA DRAIN
- EXISTING UTILITY VAULT
- EXISTING JUNCTION BASE CAN
- EXISTING DUCT MARKER

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DATE: APRIL 2016

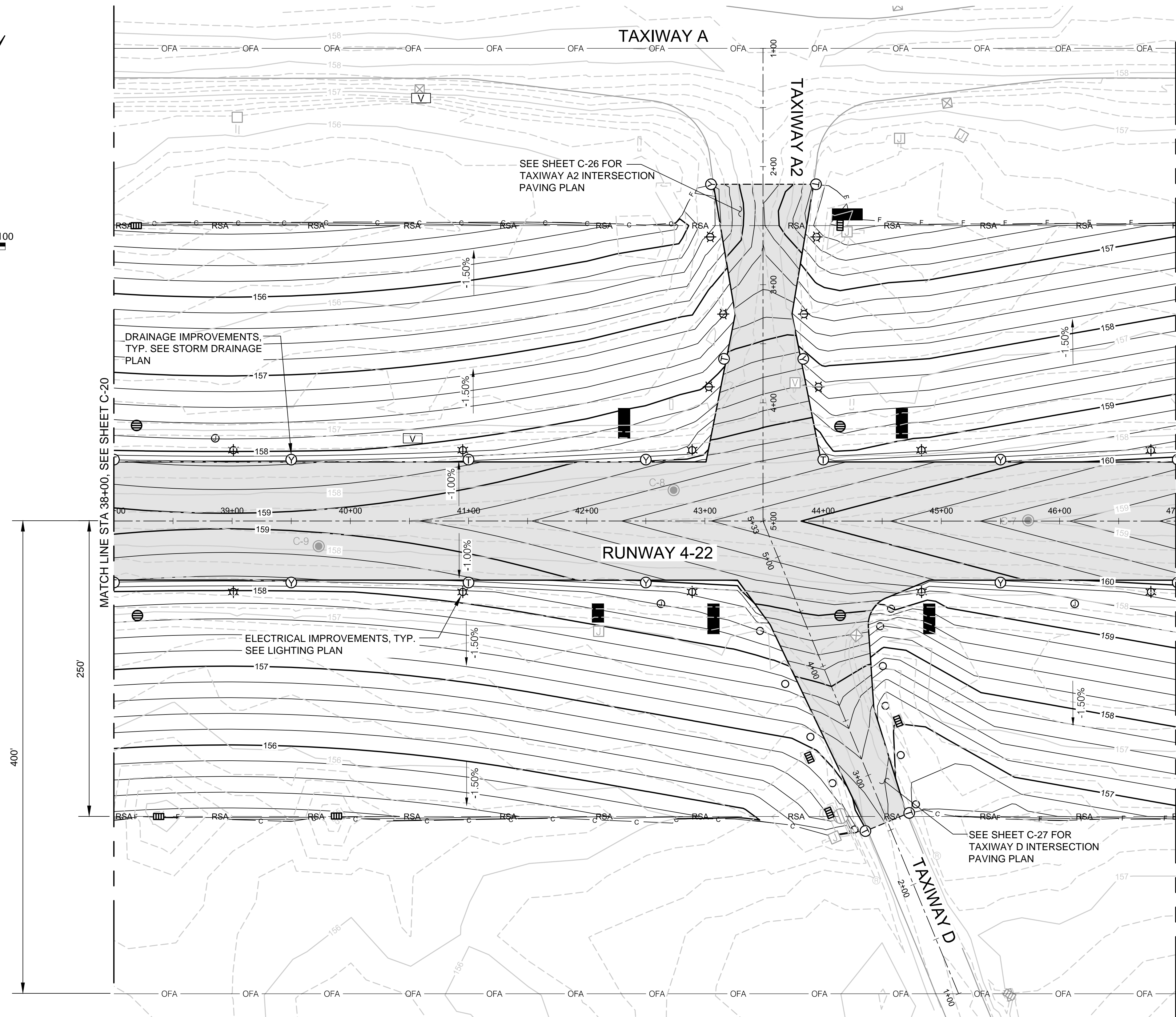
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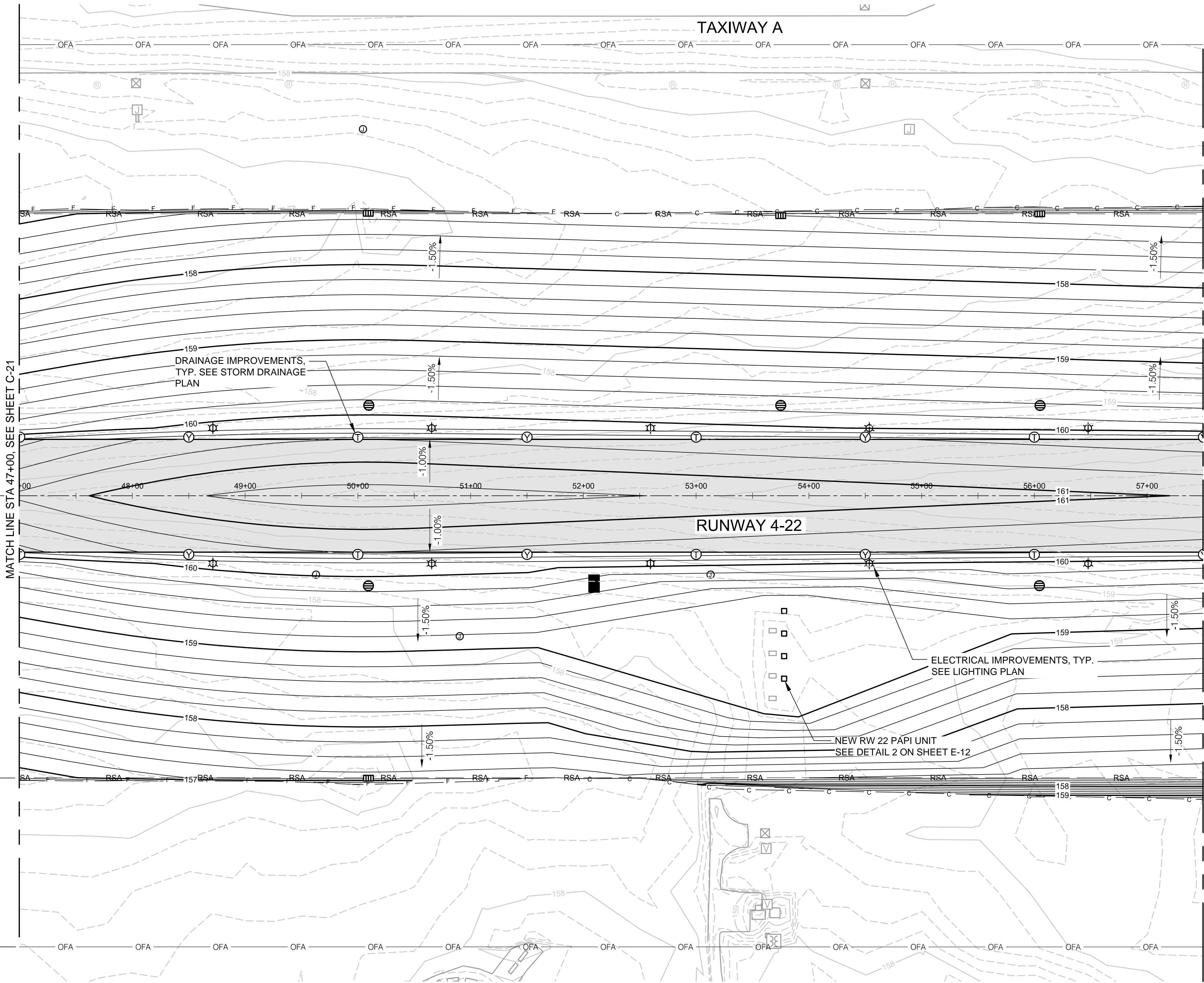
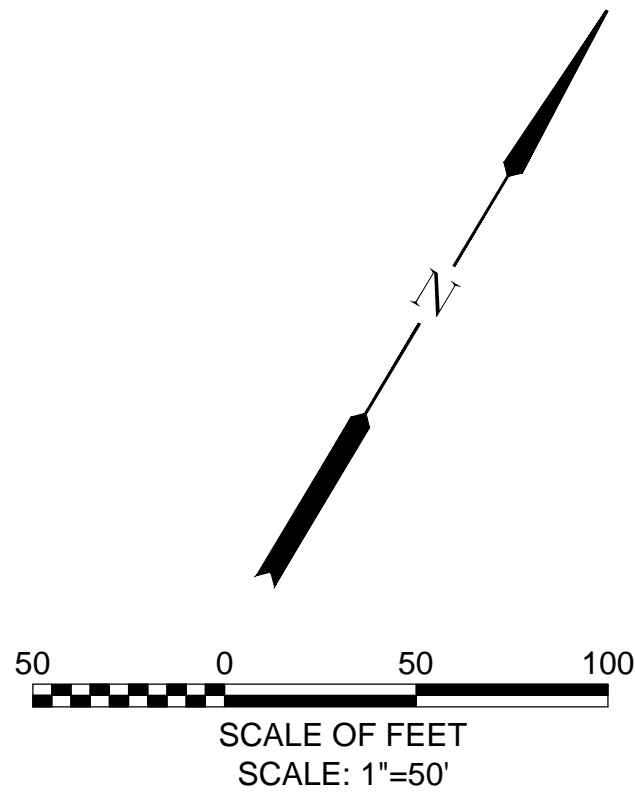
DESIGNED BY: BFC
DRAWN BY: SLK
CHECKED BY: JNR
SCALE: AS NOTED

CITY OF MCMINNVILLE
MCMINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

RUNWAY 4-22 PAVING AND GRADING PLAN
STA 28+00 TO STA 38+00

DRAWING NO. C-20
SHEET NO. 30 OF 80





LEGEND

- NEW PAVEMENT
- EXISTING PAVEMENT
- EXISTING INDEX CONTOUR
- EXISTING 0.2' CONTOUR
- NEW INDEX CONTOURS
- NEW 0.2' CONTOURS
- SAWCUT EXISTING PAVEMENT
- CUT LINE
- FILL LINE
- RUNWAY OBJECT FREE AREA
- RUNWAY SAFETY AREA
- GEOTECHNICAL TEST
- LOCATION - SPECIFIC GRADE
- NEW CLEANOUT
- NEW STORM MANHOLE
- NEW CATCH BASIN
- NEW GUIDANCE SIGN
- NEW EDGE LIGHT
- NEW JUNCTION CAN
- EXISTING STORM MANHOLE/CATCH BASIN
- EXISTING AREA DRAIN
- EXISTING UTILITY VAULT
- EXISTING JUNCTION BASE CAN
- EXISTING DUCT MARKER

PLAN
SCALE: 1"=50'


1
C-22

S:\Municipal\Projects\40228 City of McMinnville\008\03-CADD-Working Drawings\C-22 RW 4-22 PAVING AND GRADING-REV.A.dwg



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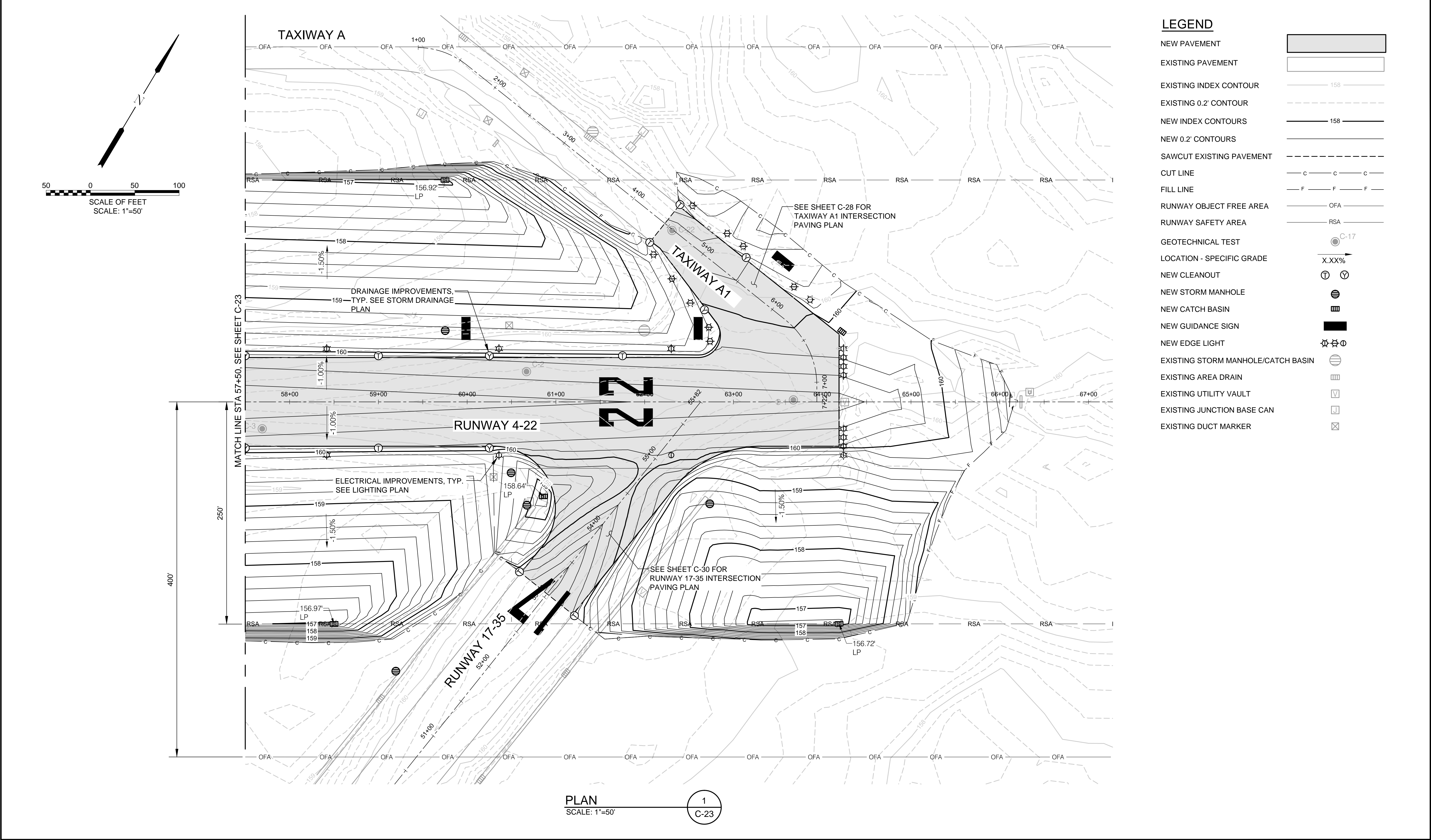
CITY OF MCMINNVILLE
MCMINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

RUNWAY 4-22 PAVING AND GRADING PLAN
STA 47+00 TO STA 57+50

DRAWING NO.
C-22

SHEET NO.
32 OF 80

S:\Municipal\Projects\40228 City of McMinnville\008\03\....CADD\....Working Drawings\C-23 RW 4-22 PAVING AND GRADING-REV A.dwg



LEGEND

- NEW PAVEMENT
- EXISTING PAVEMENT
- EXISTING INDEX CONTOUR
- EXISTING 0.2' CONTOUR
- NEW INDEX CONTOURS
- NEW 0.2' CONTOURS
- SAWCUT EXISTING PAVEMENT
- CUT LINE
- FILL LINE
- RUNWAY OBJECT FREE AREA
- RUNWAY SAFETY AREA
- GEOTECHNICAL TEST
- LOCATION - SPECIFIC GRADE
- NEW CLEANOUT
- NEW STORM MANHOLE
- NEW CATCH BASIN
- NEW GUIDANCE SIGN
- NEW EDGE LIGHT
- EXISTING STORM MANHOLE/CATCH BASIN
- EXISTING AREA DRAIN
- EXISTING UTILITY VAULT
- EXISTING JUNCTION BASE CAN
- EXISTING DUCT MARKER

PLAN
SCALE: 1"=50'

VERIFY SCALES
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DATE: APRIL 2016
PROJECT NO: 40228.008.03

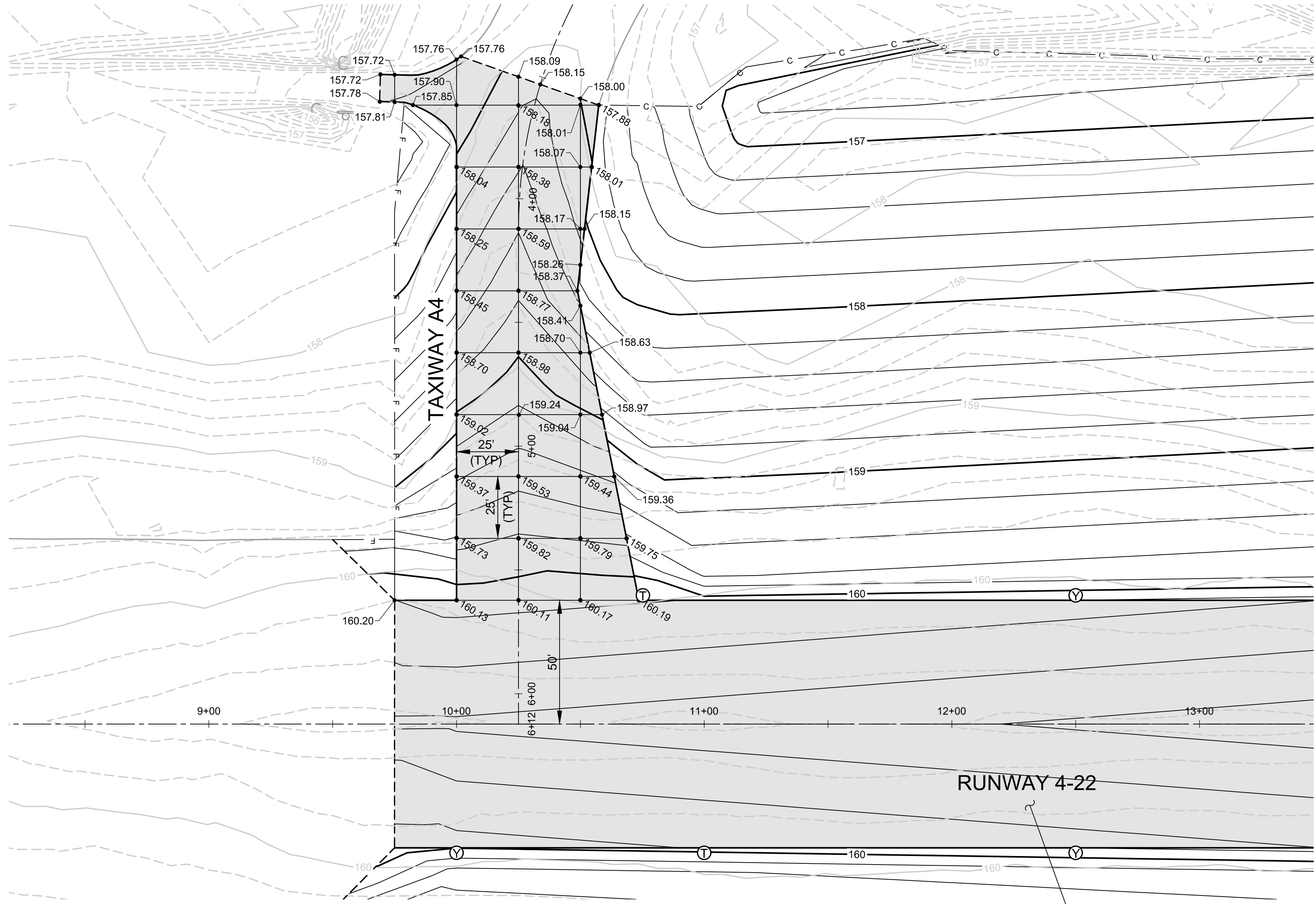
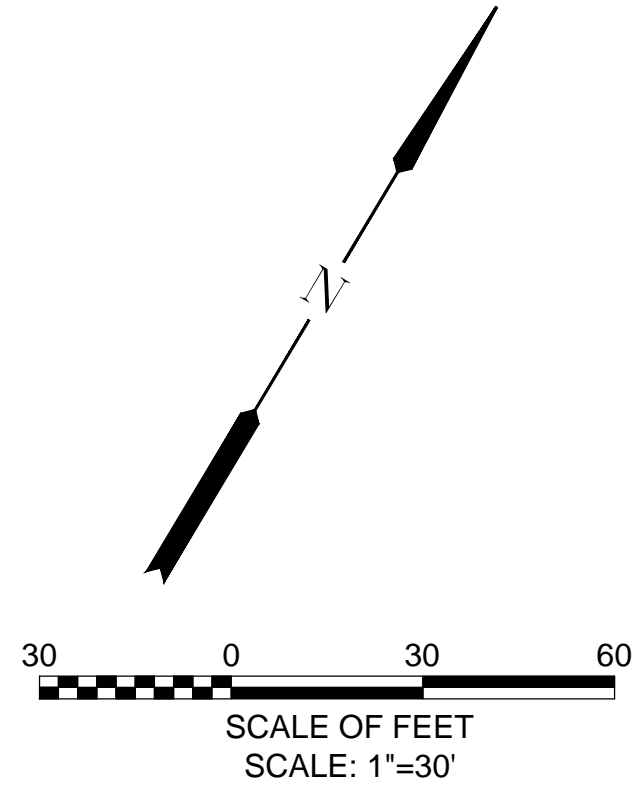
CITY OF MCMINNVILLE
MCMINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

RUNWAY 4-22 PAVING AND GRADING PLAN
STA 57+50 TO STA 67+00

DRAWING NO.
C-23

SHEET NO.
33 OF 80

S:\Municipal\Projects\40228 City of McMinnville\008\03\----CADD\----Working Drawings\C-24 RW 4-22_TWY A4 INTERSECTION PAVING AND GRADING-REVA.dwg



PLAN
SCALE: 1"=30'

1
C-24

LEGEND

NEW PAVEMENT	
EXISTING PAVEMENT	
EXISTING INDEX CONTOUR	
EXISTING 0.2' CONTOUR	
NEW INDEX CONTOURS	
NEW 0.2' CONTOURS	
SAWCUT EXISTING PAVEMENT	
INSPECTION TEE	
CLEAN-OUT WYE	
STORM MANHOLE	
STORM CATCH BASIN	
CUT LINE	
FILL LINE	

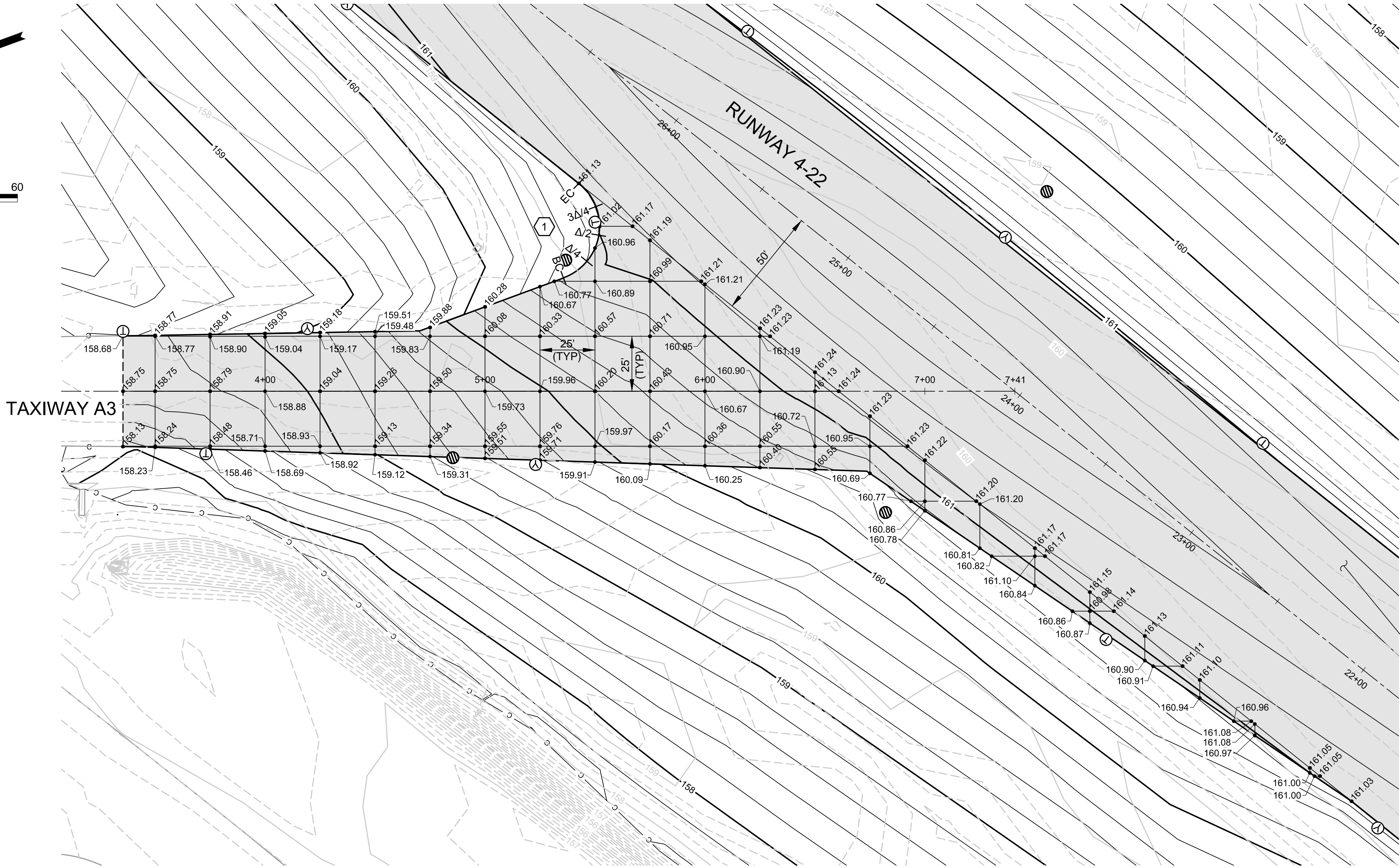
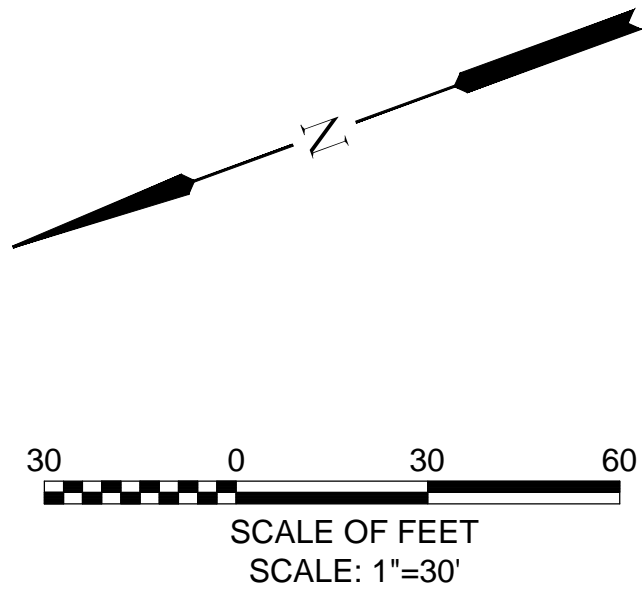


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	DATE: APRIL 2016	PROJECT NO: 40228.008.03			DRAWN BY: SLK
			CHECKED BY: JNR	TAXIWAY A4 INTERSECTION PAVING PLAN	SHEET NO. 34 OF 80
			SCALE: AS NOTED		

S:\Municipal\Projects\40228 City of McMinnville\008\03\----CADD\----Working Drawings\C-25 RW 4-22_TWY A3 INTERSECTION PAVING AND GRADING.dwg



PLAN
SCALE: 1"=30'

1
C-25

1 FILLET GRADING DATA

CURVE ID	BC	$\Delta/4$	$\Delta/2$	$3\Delta/4$	EC
1	160.84	160.93	161.00	161.07	161.13

SEE SHEET C-19 FOR
RUNWAY 4-22 PAVING
AND GRADING PLAN

LEGEND

NEW PAVEMENT

EXISTING PAVEMENT

EXISTING INDEX CONTOUR

EXISTING 0.2' CONTOUR

NEW INDEX CONTOURS

NEW 0.2' CONTOURS

SAWCUT EXISTING PAVEMENT

INSPECTION TEE

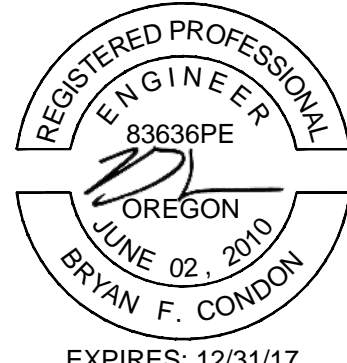
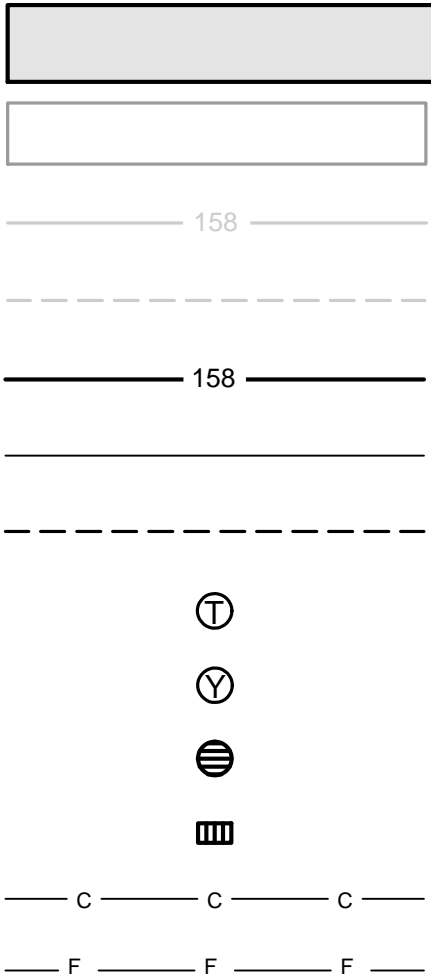
CLEAN-OUT WYE

STORM MANHOLE

STORM CATCH BASIN


CUT LINE

FILL LINE



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DATE: APRIL 2016
PROJECT NO: 40228.008.03

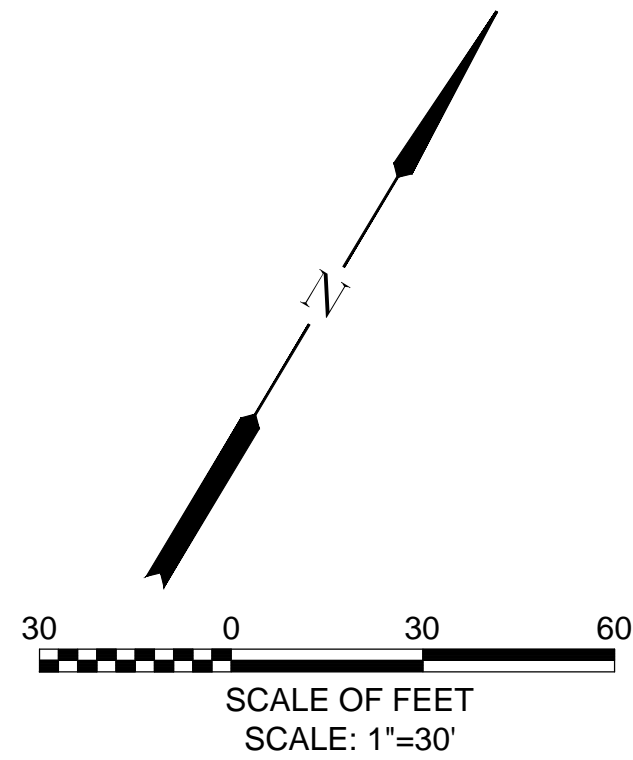
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DRAWN BY: SLK
CHECKED BY: JNR
SCALE: AS NOTED

CITY OF MCMINNVILLE
MCMINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

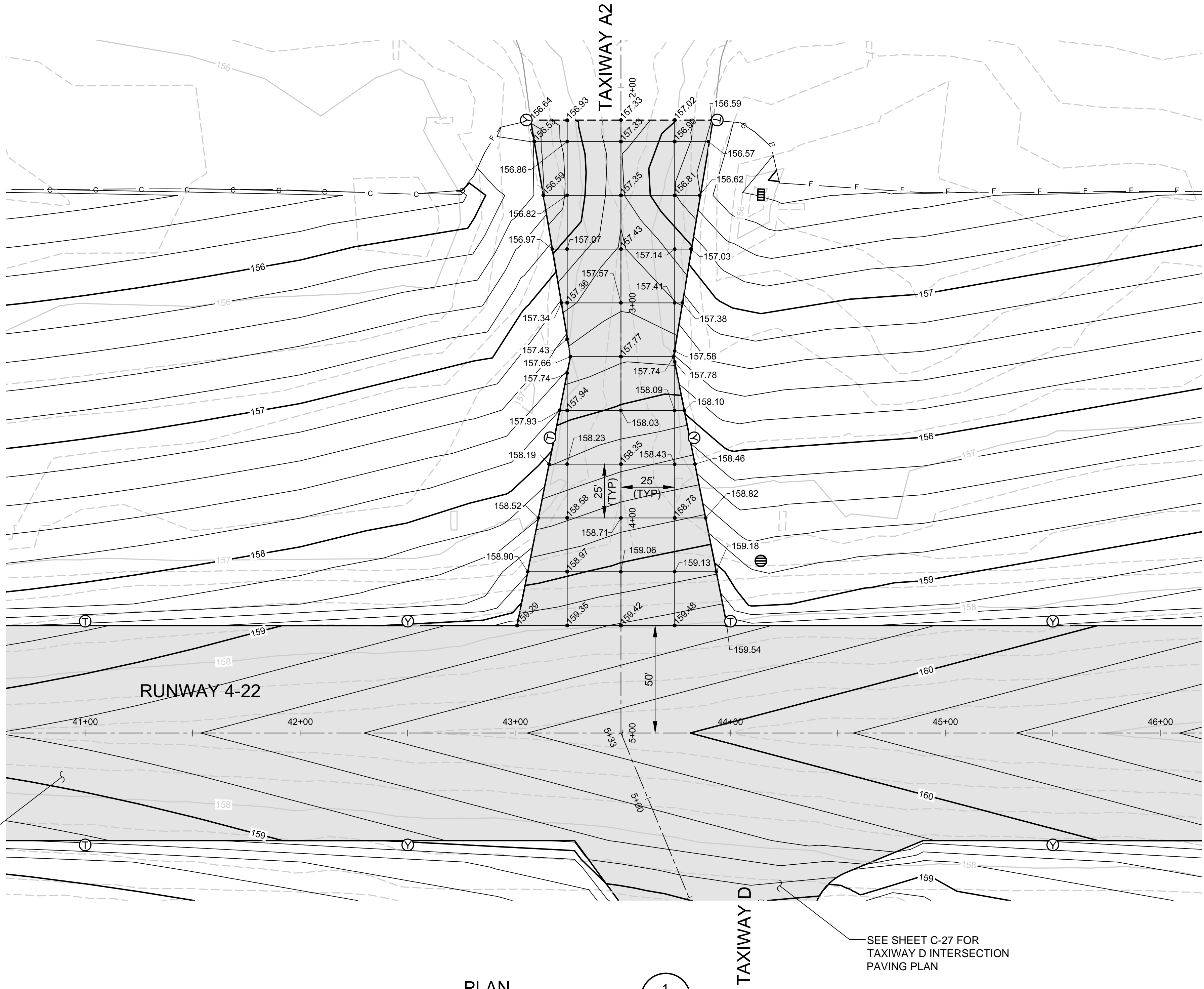
TAXIWAY A3 INTERSECTION PAVING PLAN

DRAWING NO.
C-25
SHEET NO.
35 OF 80

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SEE SHEET C-22 FOR
RUNWAY 4-22 PAVING
AND GRADING PLAN



PLAN
SCALE: 1"=30'

TAXIWAY D

SEE SHEET C-27 FOR
TAXIWAY D INTERSECTION
PAVING PLAN

LEGEND

NEW PAVEMENT

EXISTING PAVEMENT

EXISTING INDEX CONTOUR

EXISTING 0.2' CONTOUR

NEW INDEX CONTOURS

NEW 0.2' CONTOURS

SAWCUT EXISTING PAVEMENT

INSPECTION TEE

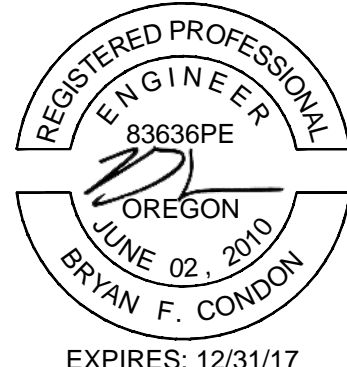
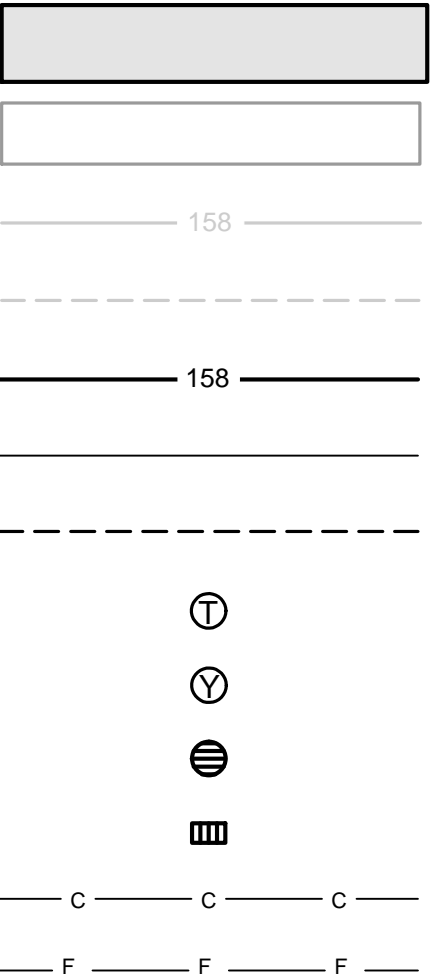
CLEAN-OUT WYE

STORM MANHOLE

STORM CATCH BASIN


CUT LINE

FILL LINE



VERIFY SCALES
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ORIGINAL DRAWING.
0" 1"
IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY.

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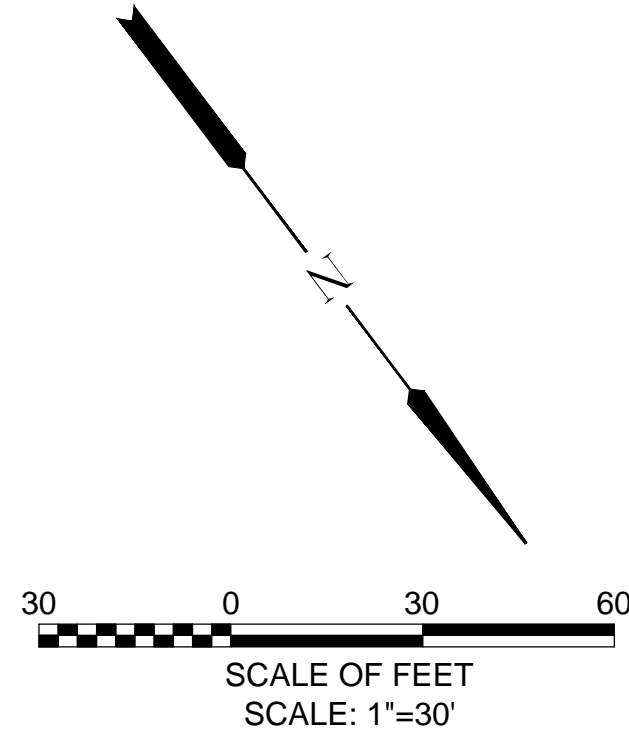
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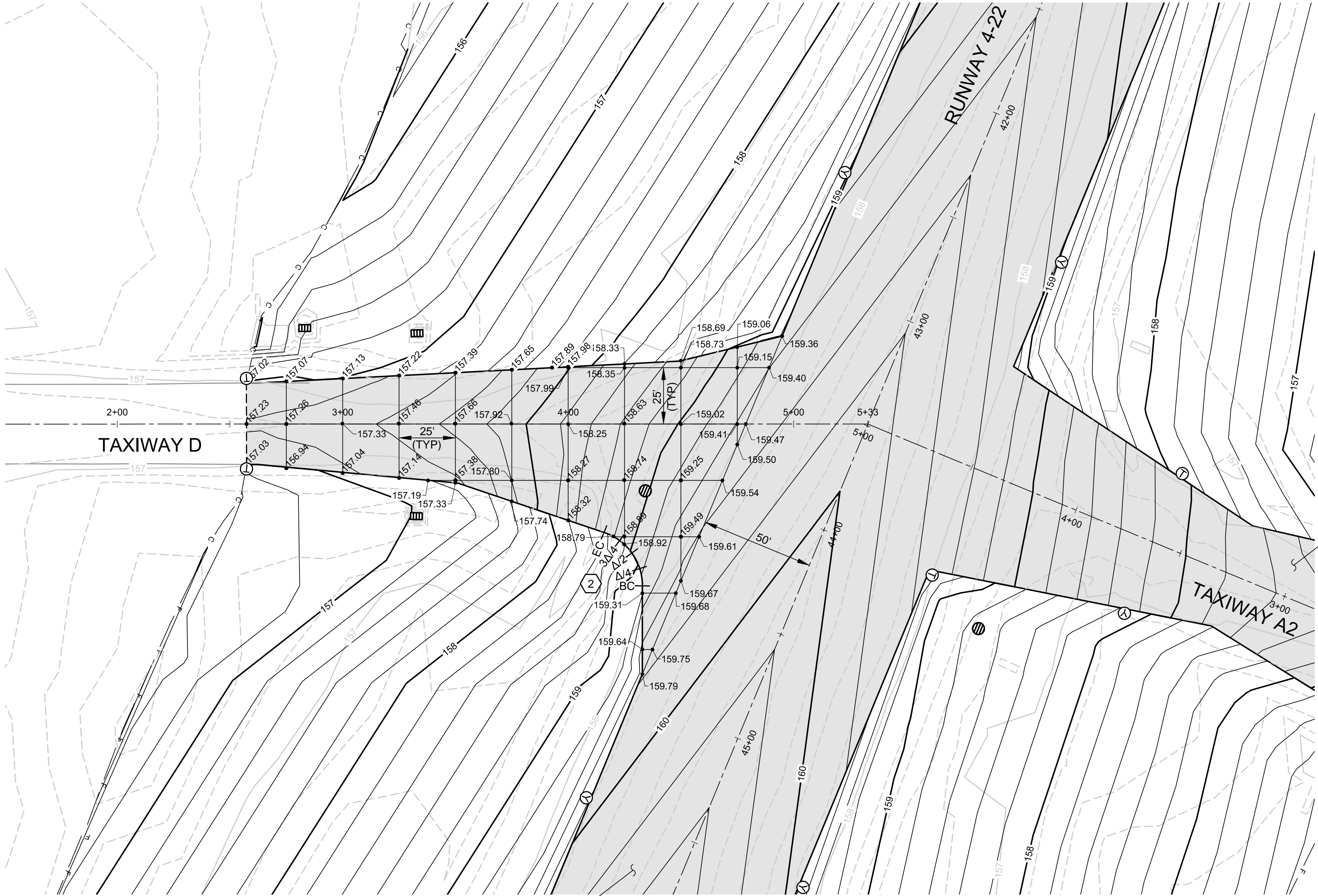
CITY OF MCMINNVILLE MCMINNVILLE MUNICIPAL AIRPORT RUNWAY 4-22 REHABILITATION PROJECT
TAXIWAY A2 INTERSECTION PAVING PLAN

DRAWING NO. C-26
SHEET NO. 36 OF 80

S:\Municipal\Projects\40228 City of McMinnville\008\03\----CADD\----Working Drawings\C-27 RW 4-22_TWY D INTERSECTION PAVING AND GRADING.dwg



1 FILLET GRADING DATA					
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PLAN
SCALE: 1"=30'

1
C-27


LEGEND

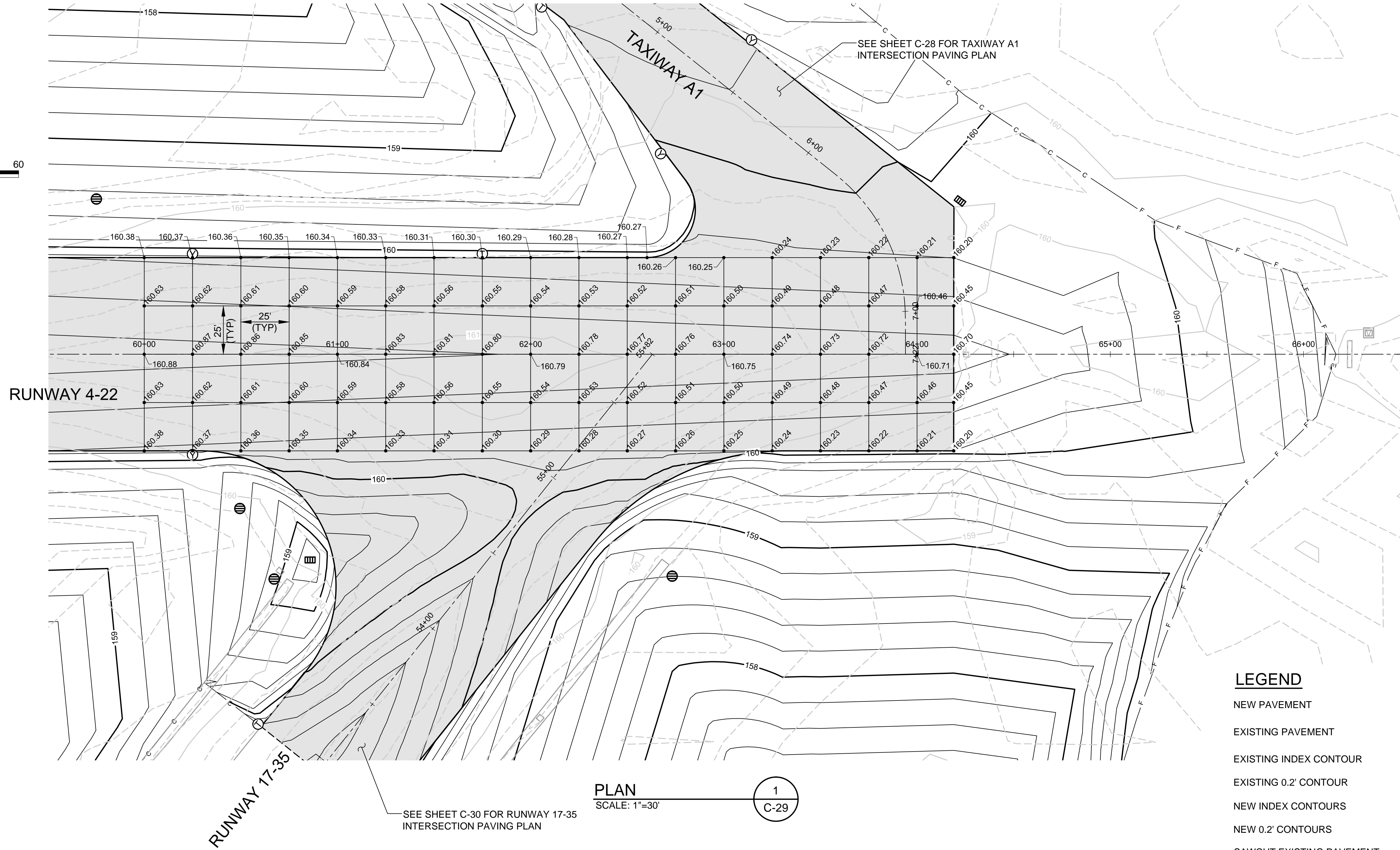
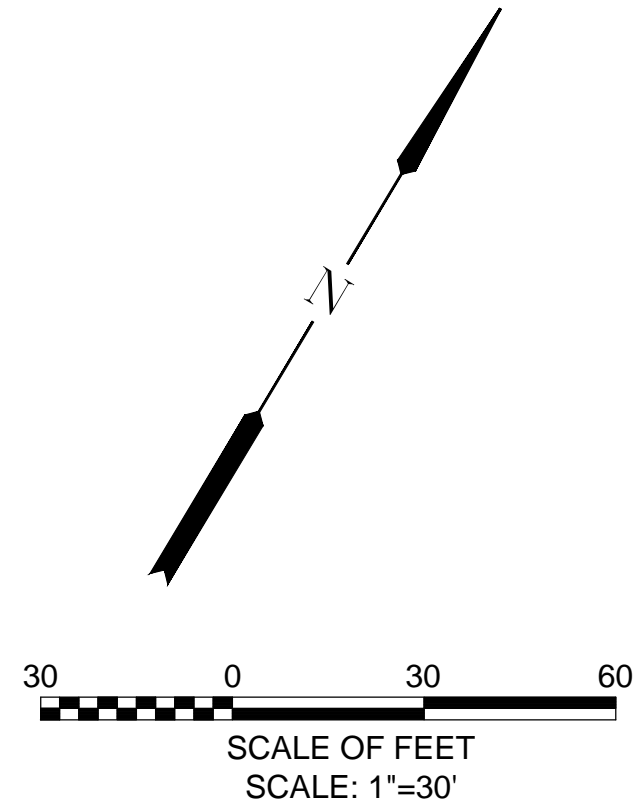
NEW PAVEMENT	
EXISTING PAVEMENT	
EXISTING INDEX CONTOUR	
EXISTING 0.2' CONTOUR	
NEW INDEX CONTOURS	
NEW 0.2' CONTOURS	
SAWCUT EXISTING PAVEMENT	
INSPECTION TEE	
CLEAN-OUT WYE	
STORM MANHOLE	
STORM CATCH BASIN	
CUT LINE	
FILL LINE	



VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING.
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

NO.	DATE	BY	APPR	REVISIONS

<div></div> <div>PORTLAND OFFICE 5331 SW MACADAM AVE., #207 PORTLAND, OR 97239 503.419.2130 503.639.2710 FAX</div>		DESIGNED BY: BFC	CITY OF MCMINNVILLE MCMINNVILLE MUNICIPAL AIRPORT RUNWAY 4-22 REHABILITATION PROJECT	DRAWING NO. C-27	
		DRAWN BY: SLK			
		CHECKED BY: JNR			
DATE: APRIL 2016	PROJECT NO: 40228.008.03	SCALE: AS NOTED	TAXIWAY D INTERSECTION PAVING PLAN		SHEET NO. 37 OF 80



LEGEND


- NEW PAVEMENT
- EXISTING PAVEMENT
- EXISTING INDEX CONTOUR
- EXISTING 0.2' CONTOUR
- NEW INDEX CONTOURS
- NEW 0.2' CONTOURS
- SAWCUT EXISTING PAVEMENT
- INSPECTION TEE
- CLEAN-OUT WYE
- STORM MANHOLE
- STORM CATCH BASIN
- CUT LINE
- FILL LINE

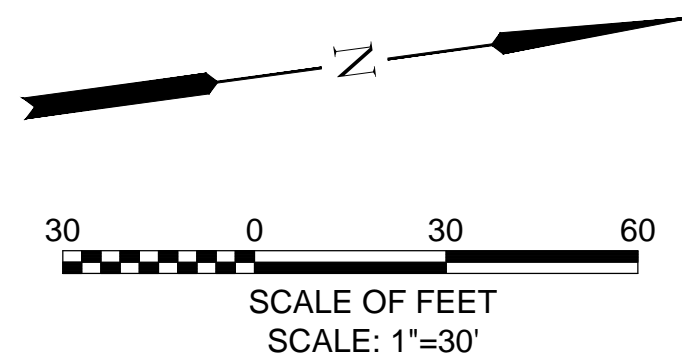
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0" 1"
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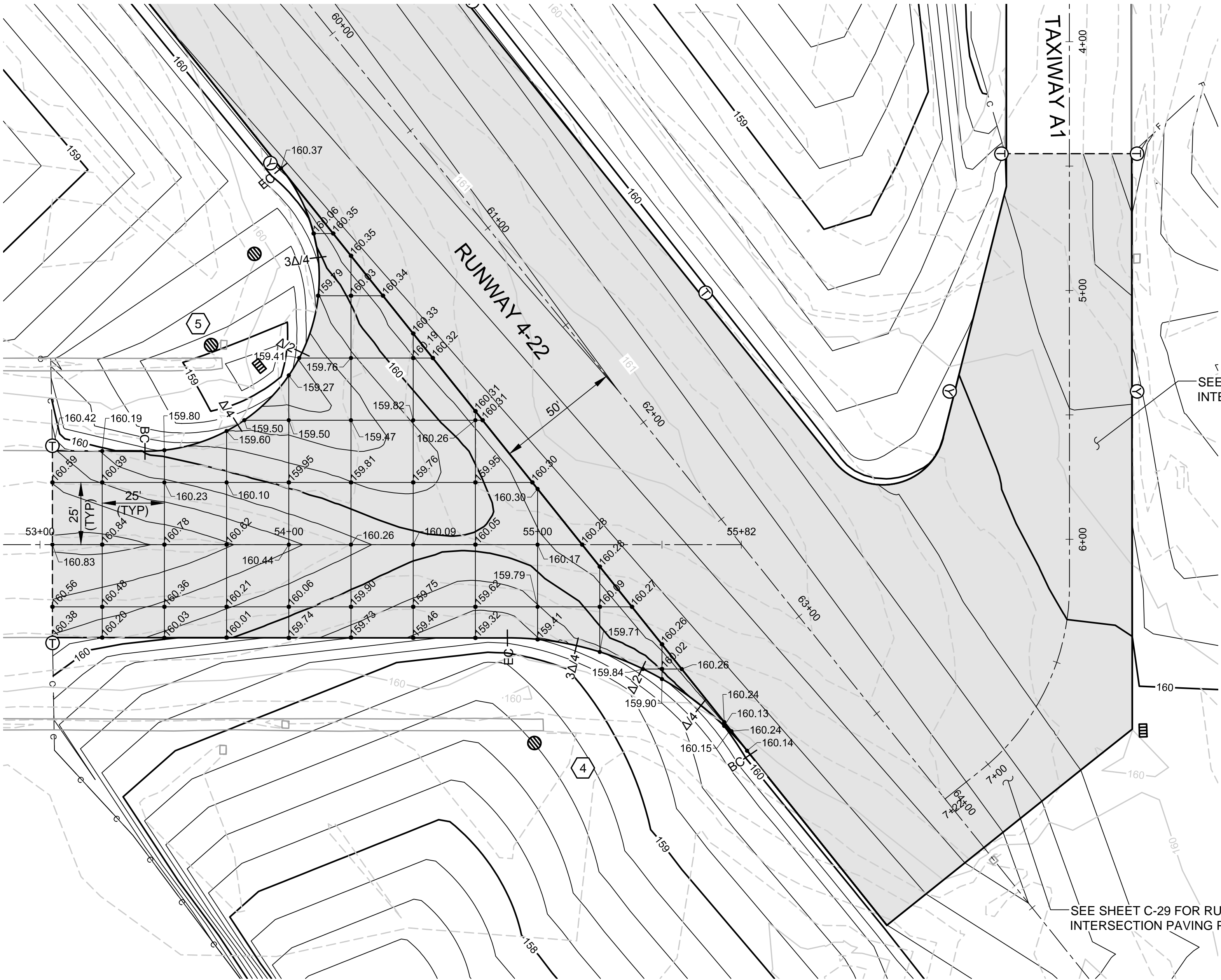
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	DATE: APRIL 2016	PROJECT NO: 40228.008.03			DRAWN BY: SLK
	CHECKED BY: JNR	SCALE: AS NOTED			RUNWAY 4-22 INTERSECTION PAVING PLAN STA 59+50 TO STA 66+50



1 FILLET GRADING DATA					
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5	159.99	159.54	159.45	159.95	160.36

RUNWAY 17-35



SEE SHEET C-28 FOR TAXIWAY A1
INTERSECTION PAVING PLAN

SEE SHEET C-29 FOR RUNWAY 4-22
INTERSECTION PAVING PLAN

PLAN
SCALE: 1"=30'

1
C-30

LEGEND

NEW PAVEMENT	
EXISTING PAVEMENT	
EXISTING INDEX CONTOUR	
EXISTING 0.2' CONTOUR	
NEW INDEX CONTOURS	
NEW 0.2' CONTOURS	
SAWCUT EXISTING PAVEMENT	
INSPECTION TEE	
CLEAN-OUT WYE	
STORM MANHOLE	
STORM CATCH BASIN	
CUT LINE	
FILL LINE	

S:\Municipal\Projects\40228 City of McMinnville\008\03\----CADD\----Working Drawings\C-30 RW 17-35 INTERSECTION PAVING AND GRADING.dwg



VERIFY SCALES
BAR IS ONE INCH ON
ORIGINAL DRAWING.
0" 1"
IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY.

NO.	DATE	BY	APPR	REVISIONS



PORTLAND OFFICE
5331 SW MACADAM AVE., #207
PORTLAND, OR 97239
503.419.2130
503.639.2710 FAX

DATE:
APRIL 2016

PROJECT NO:
40228.008.03

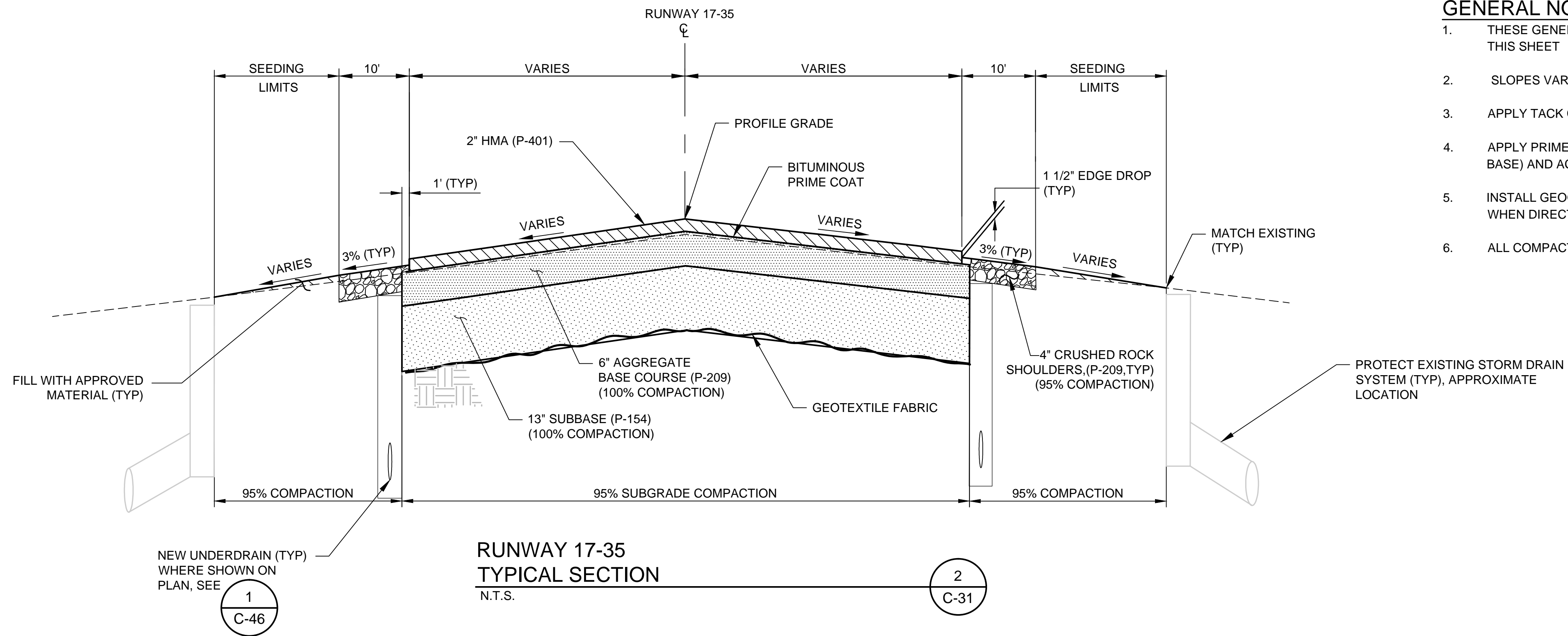
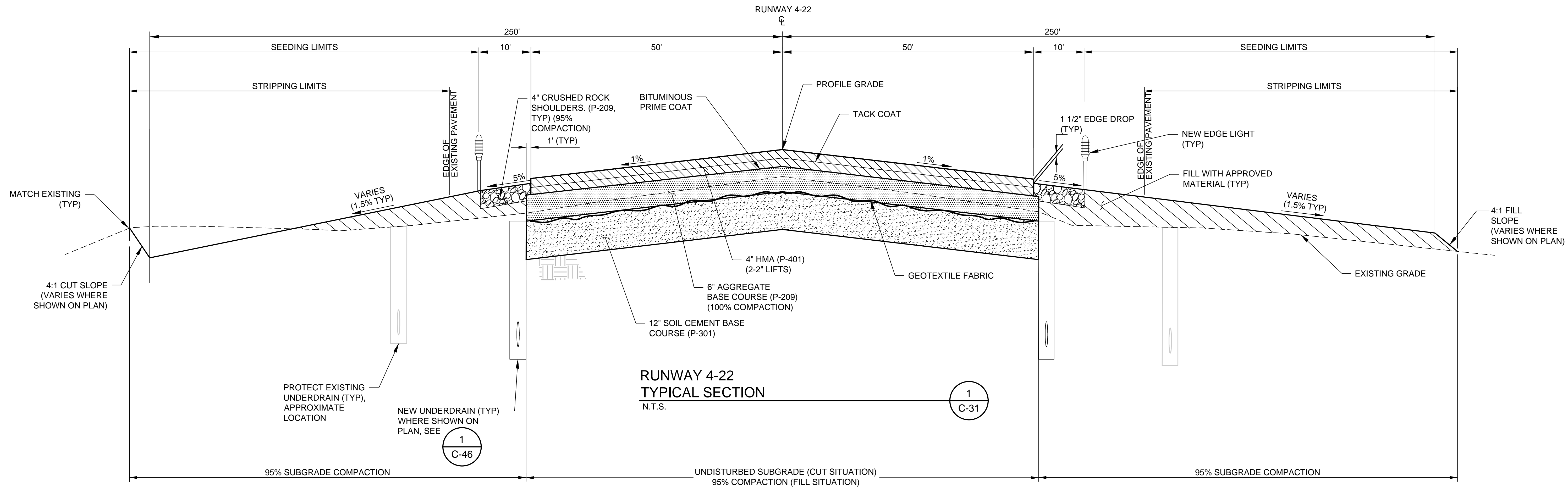
DESIGNED BY:
BFC
DRAWN BY:
SLK
CHECKED BY:
JNR
SCALE:
AS NOTED

CITY OF MCMINNVILLE
MCMINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

RUNWAY 17-35 INTERSECTION PAVING PLAN

DRAWING NO.
C-30
SHEET NO.
40 OF 80

S:\Municipal\Projects\40228 City of McMinnville\008\03\----CADD\----Working Drawings\C-31 TYP SEC AND PAVE DETAILS.dwg




- GENERAL NOTES:**
- THESE GENERAL NOTES APPLY TO ALL DETAILS ON THIS SHEET
 - SLOPES VARY WHERE SHOWN ON PLAN.
 - APPLY TACK COAT BETWEEN ALL LIFTS OF AC
 - APPLY PRIME COAT BETWEEN P-209 (AGGREGATE BASE) AND AC
 - INSTALL GEOGRID ON TOP OF GEOTEXTILE FABRIC WHEN DIRECTED BY THE ENGINEER
 - ALL COMPACTION REQUIREMENTS PER ASTM D-1557



VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING.
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

NO.	DATE	BY	APPR	REVISIONS



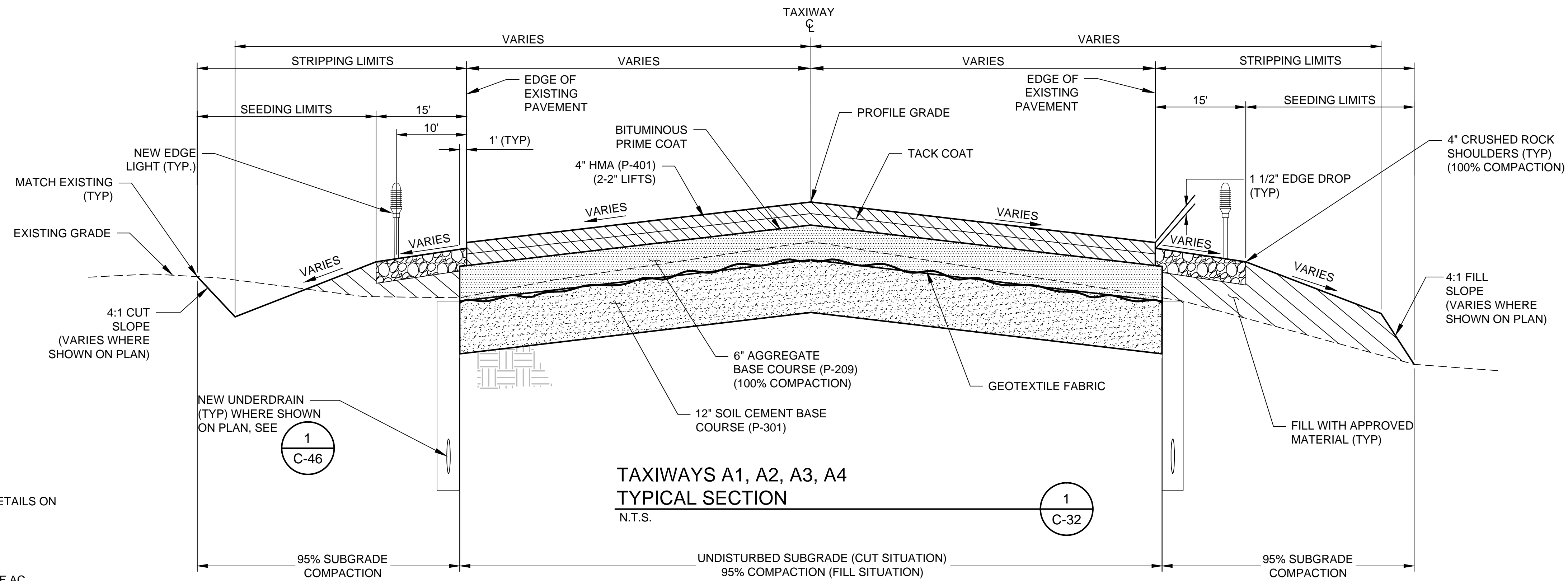
PORTLAND OFFICE
5331 SW MACADAM AVE., #207
PORTLAND, OR 97239
503.419.2130
503.639.2710 FAX

DATE: APRIL 2016

PROJECT NO: 40228.008.03

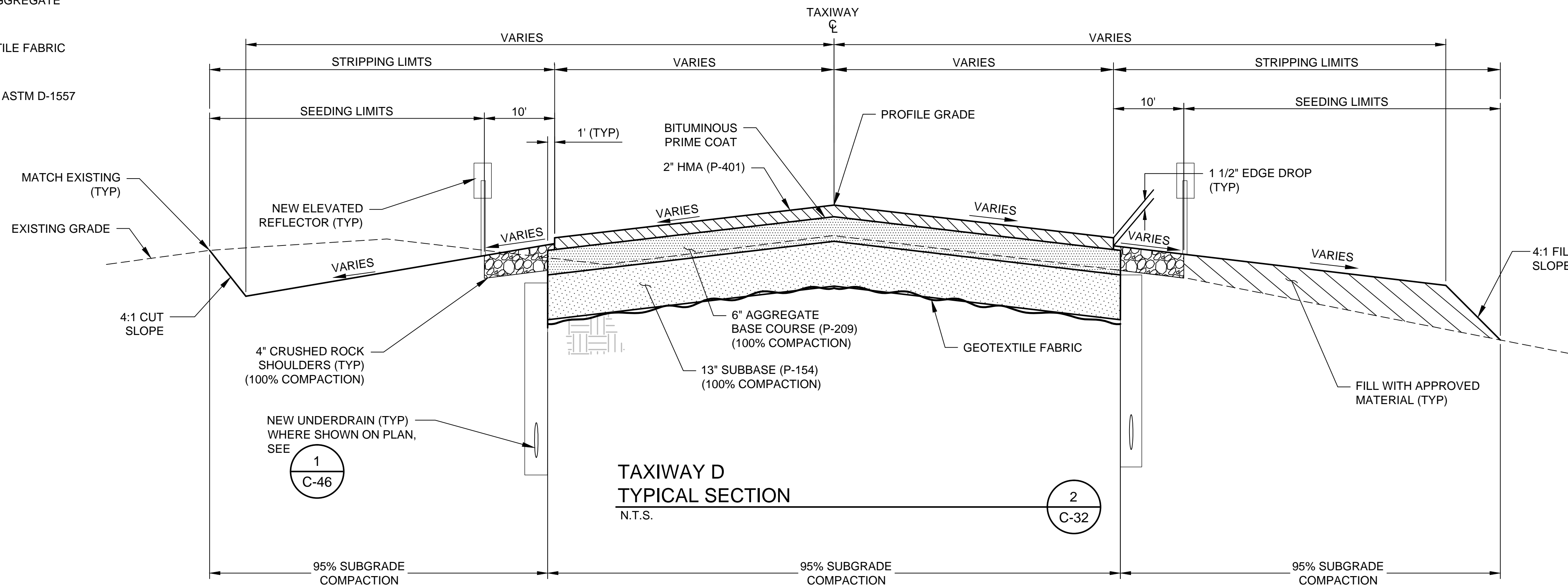
DESIGNED BY: BFC
DRAWN BY: BMV
CHECKED BY: JNR
SCALE: AS NOTED

CITY OF MCMINNVILLE MCMINNVILLE MUNICIPAL AIRPORT RUNWAY 4-22 REHABILITATION PROJECT		DRAWING NO. C-31
TYPICAL SECTIONS I		SHEET NO. 41 OF 80



GENERAL NOTES:

1. THESE GENERAL NOTES APPLY TO ALL DETAILS ON THIS SHEET
2. SLOPES VARY WHERE SHOWN ON PLAN
3. APPLY TACK COAT BETWEEN ALL LIFTS OF AC
4. APPLY PRIME COAT BETWEEN P-209 (AGGREGATE BASE) AND AC
5. INSTALL GEOGRID ON TOP OF GEOTEXTILE FABRIC WHEN DIRECTED BY THE ENGINEER
6. ALL COMPACTION REQUIREMENTS PER ASTM D-1557




S:\Municipal\Projects\40228 City of McMinnville\008\03\---CADD---\Working Drawings\C-32 TYP SEC AND PAVE DETAILS (TWV).dwg



VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING.
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

NO.	DATE	BY	APPR	REVISIONS



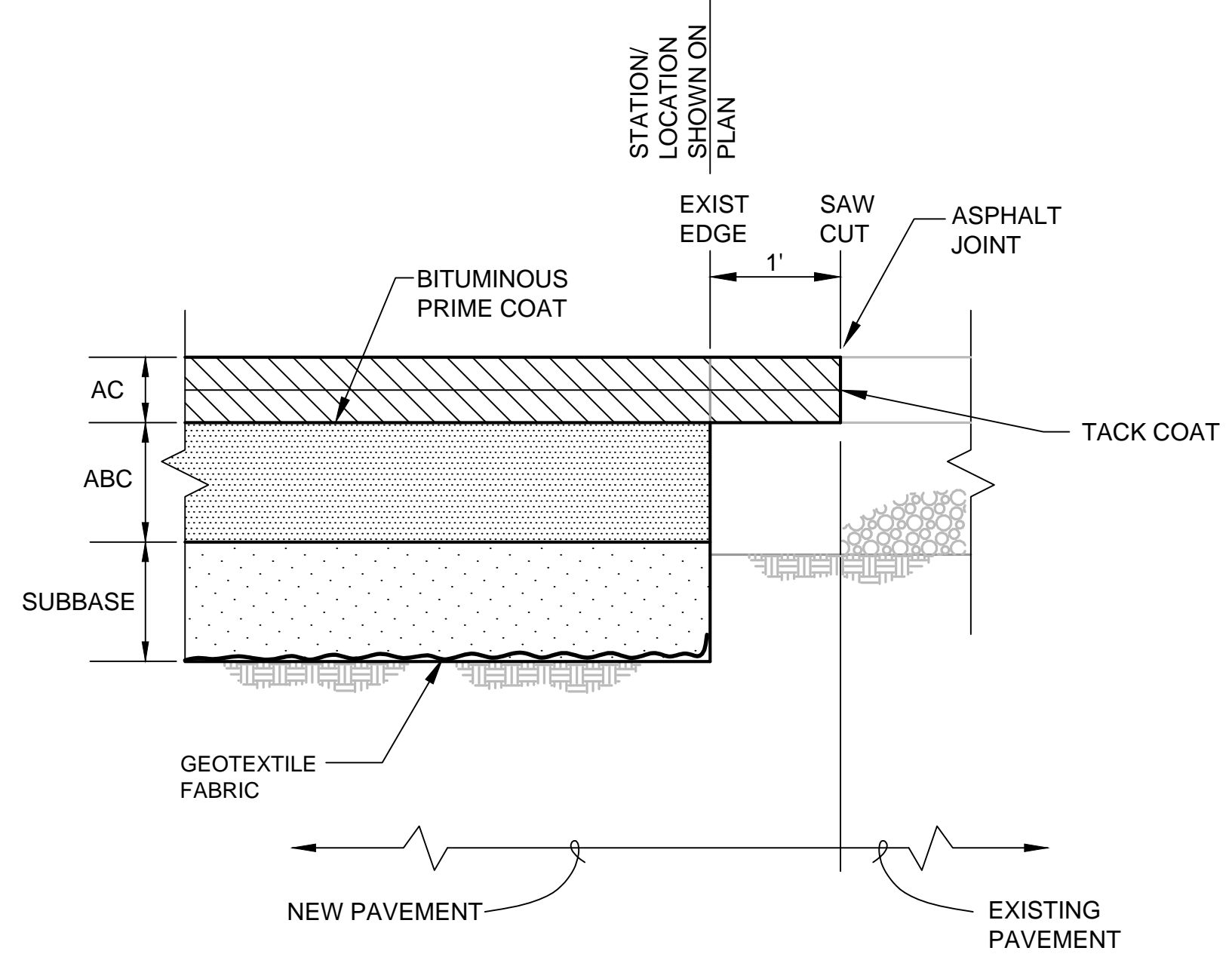
PORTLAND OFFICE
5331 SW MACADAM AVE., #207
PORTLAND, OR 97239
503.419.2130
503.639.2710 FAX

DATE: APRIL 2016

PROJECT NO: 40228.008.03

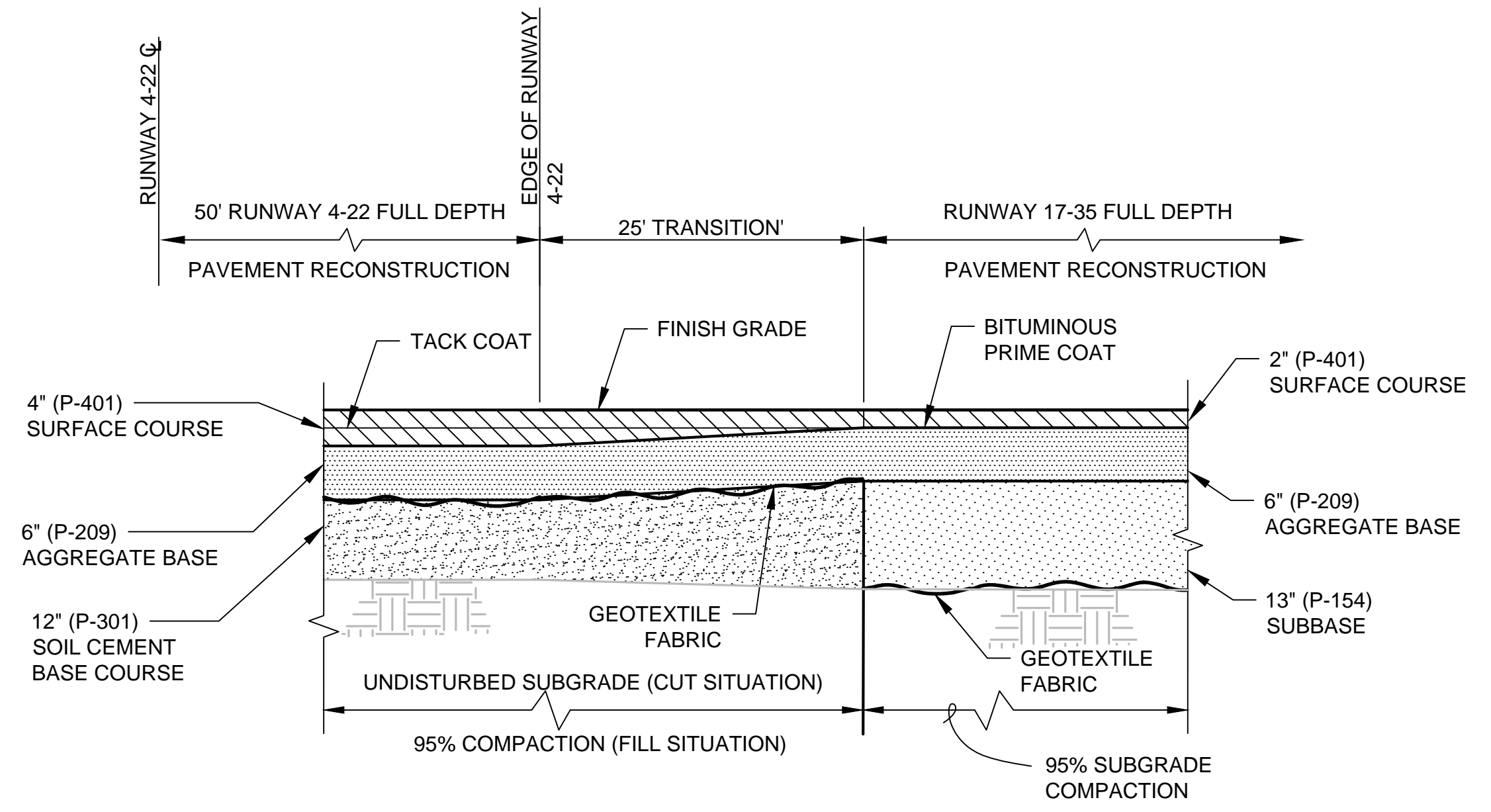
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DRAWN BY: BMV
CHECKED BY: JNR
SCALE: AS NOTED

CITY OF MCMINNVILLE MCMINNVILLE MUNICIPAL AIRPORT RUNWAY 4-22 REHABILITATION PROJECT		DRAWING NO. C-32
TYPICAL SECTIONS II		SHEET NO. 42 OF 80



1' SAWCUT DETAIL
N.T.S.

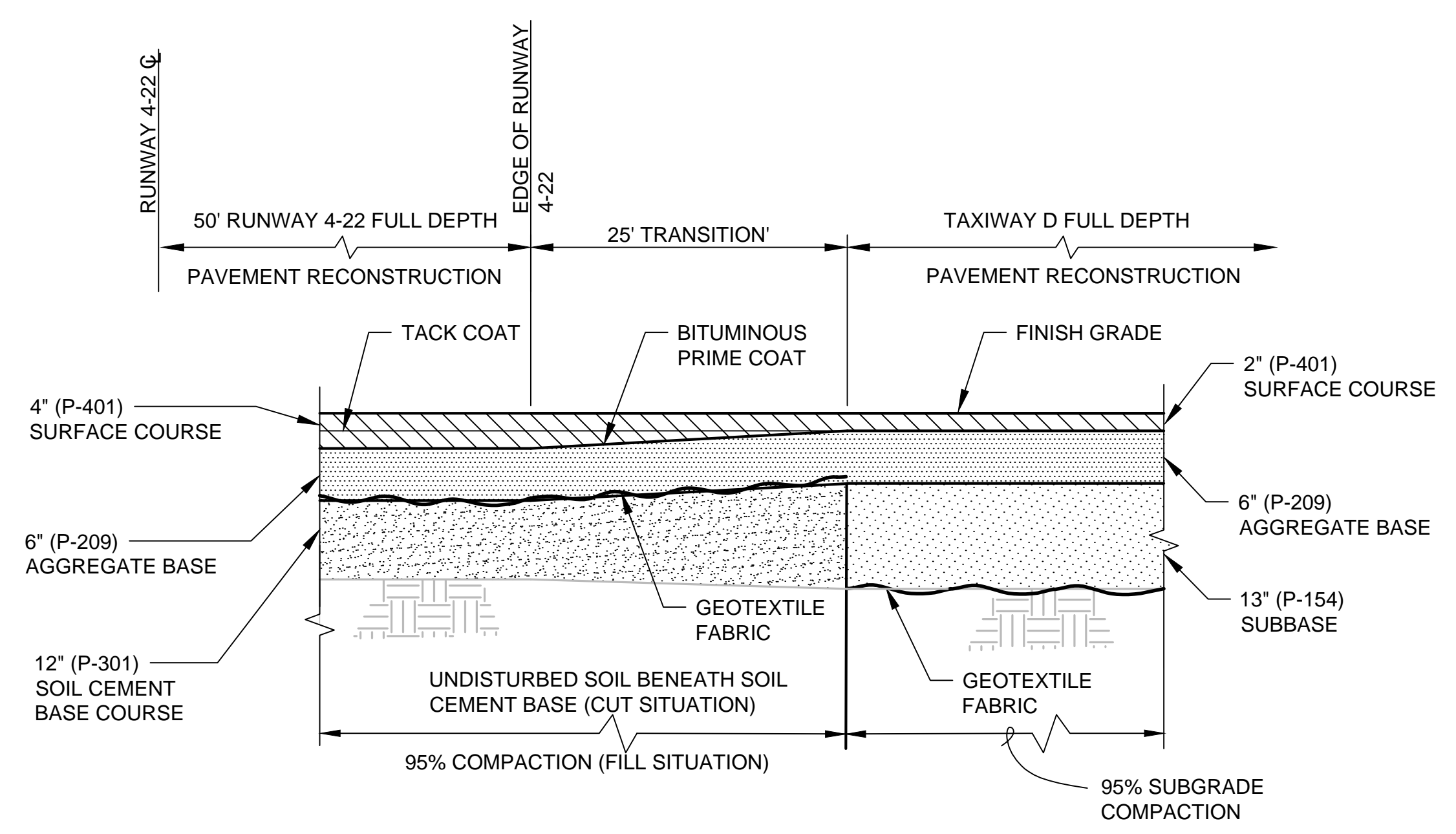
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C-33



- NOTES:**
1. INSTALL GEOGRID ON TOP OF GEOTEXTILE FABRIC WHEN DIRECTED BY THE ENGINEER
 2. ALL COMPACTION REQUIREMENTS PER ASTM D-1557

RUNWAY 4-22 TRANSITION TO
RUNWAY 17-35 DETAIL
N.T.S.

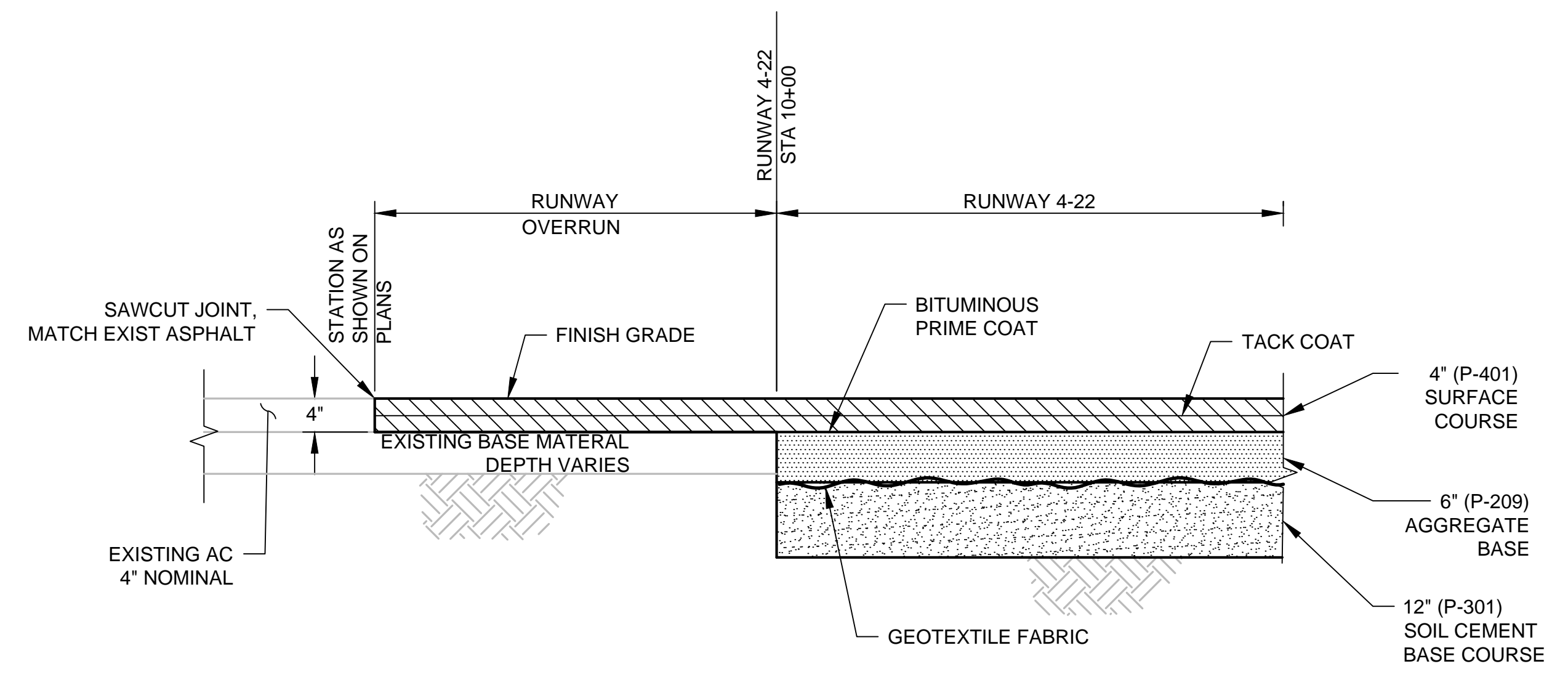
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C-33



- NOTES:**
1. INSTALL GEOGRID ON TOP OF GEOTEXTILE FABRIC WHEN DIRECTED BY THE ENGINEER
 2. ALL COMPACTION REQUIREMENTS PER ASTM D-1557

RUNWAY 4-22 TRANSITION TO
TAXIWAY D DETAIL
N.T.S.

3
C-33



- NOTES:**
1. INSTALL GEOGRID ON TOP OF GEOTEXTILE FABRIC WHEN DIRECTED BY THE ENGINEER
 2. ALL COMPACTION REQUIREMENTS PER ASTM D-1557

RUNWAY 4-22
TRANSITION TO OVERRUN
N.T.S.

4
C-33

S:\Municipal\Projects\40228 City of McMinnville\008\03\----CADD\----Working Drawings\C-33 TYP PAVING DETAILS.dwg

VERIFY SCALES
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0" 1"
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NO.	DATE	BY	APPR	REVISIONS

PORTLAND OFFICE
5331 SW MACADAM AVE., #207
PORTLAND, OR 97239
503.419.2130
503.639.2710 FAX

DESIGNED BY: BFC
DRAWN BY: BMV
CHECKED BY: JNR
SCALE: AS NOTED

DATE: APRIL 2016
PROJECT NO: 40228.008.03

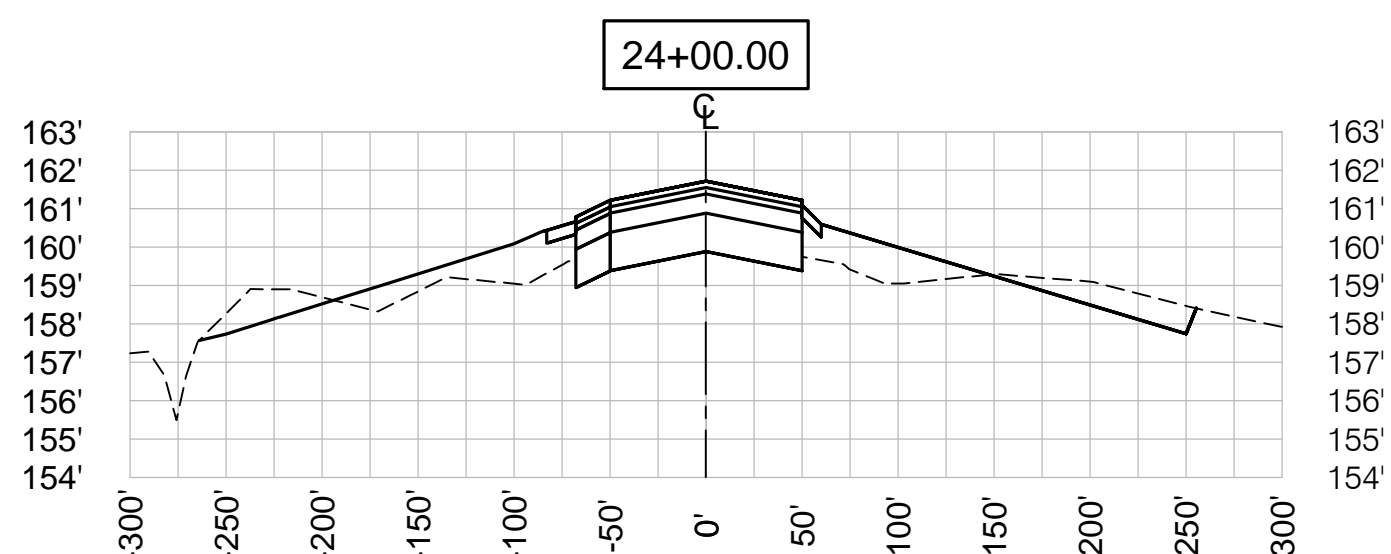
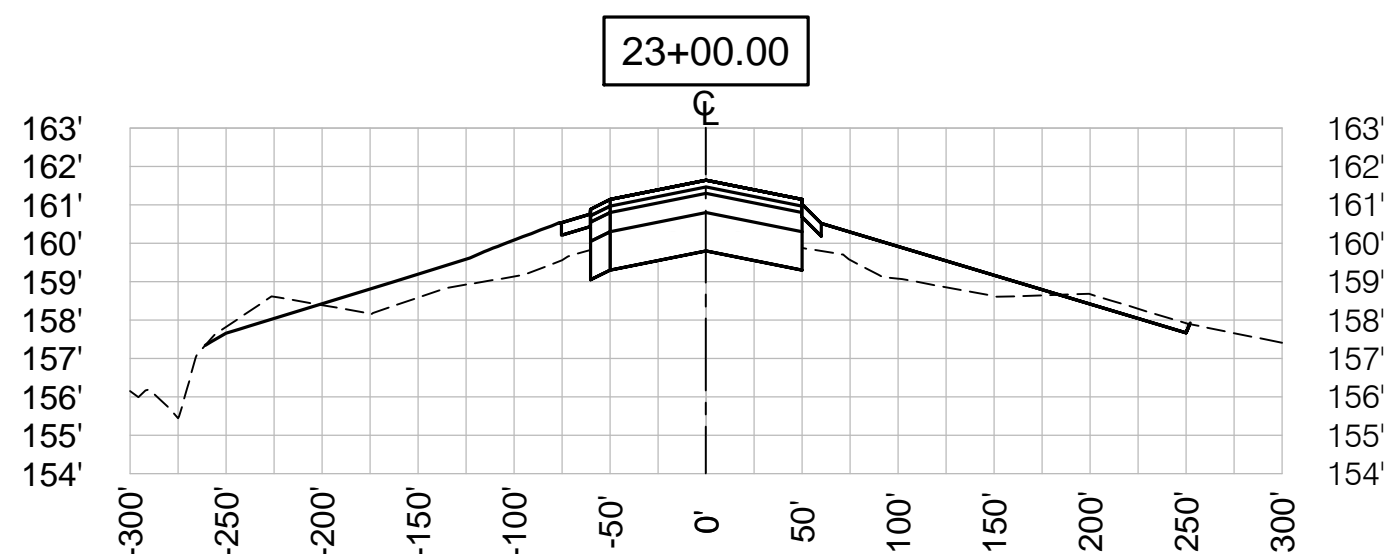
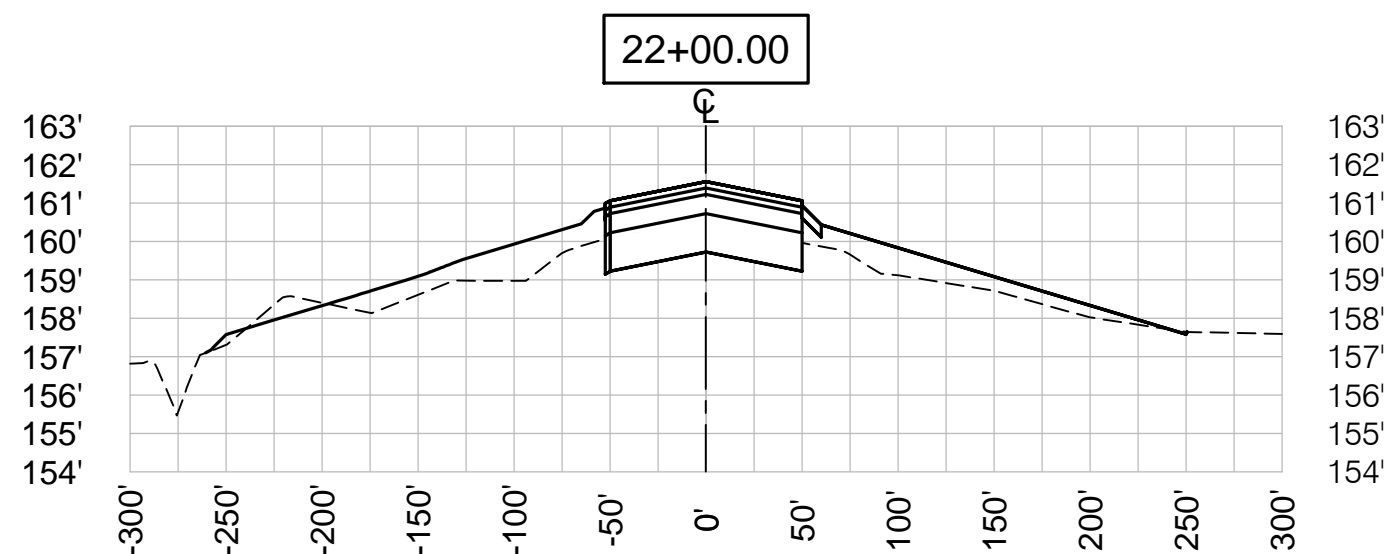
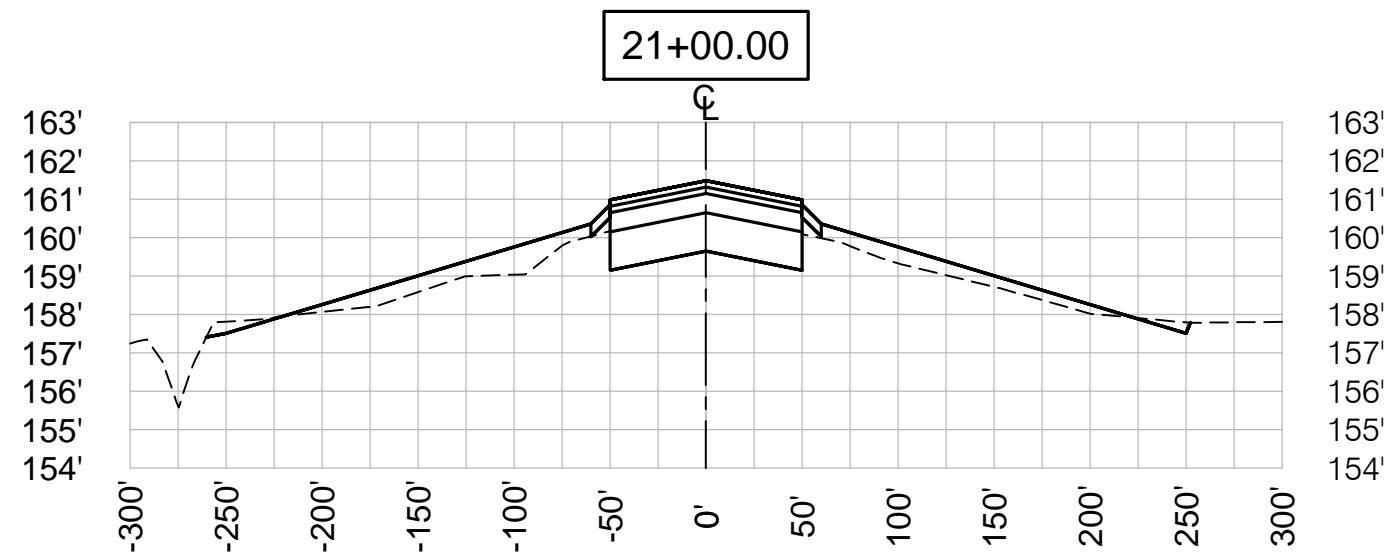
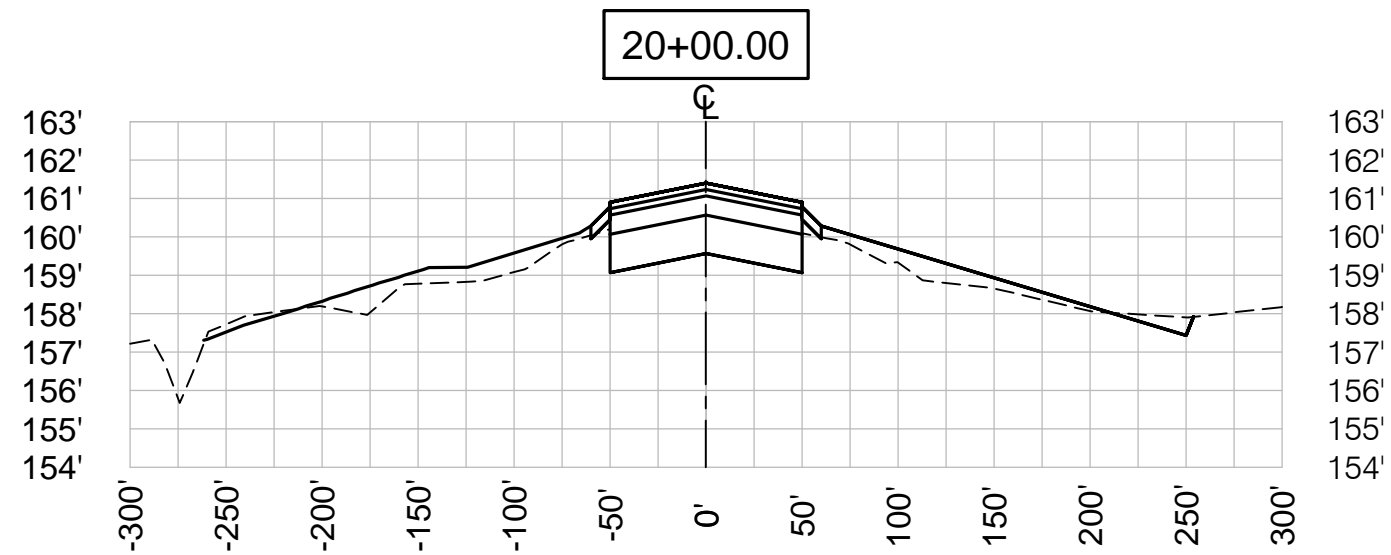
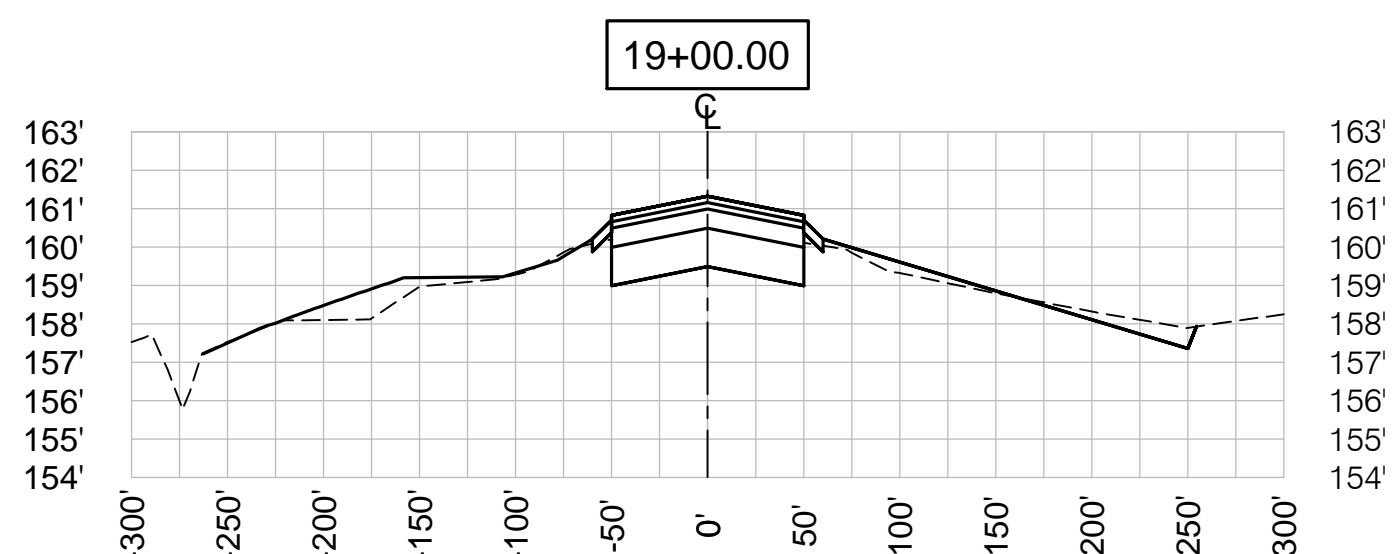
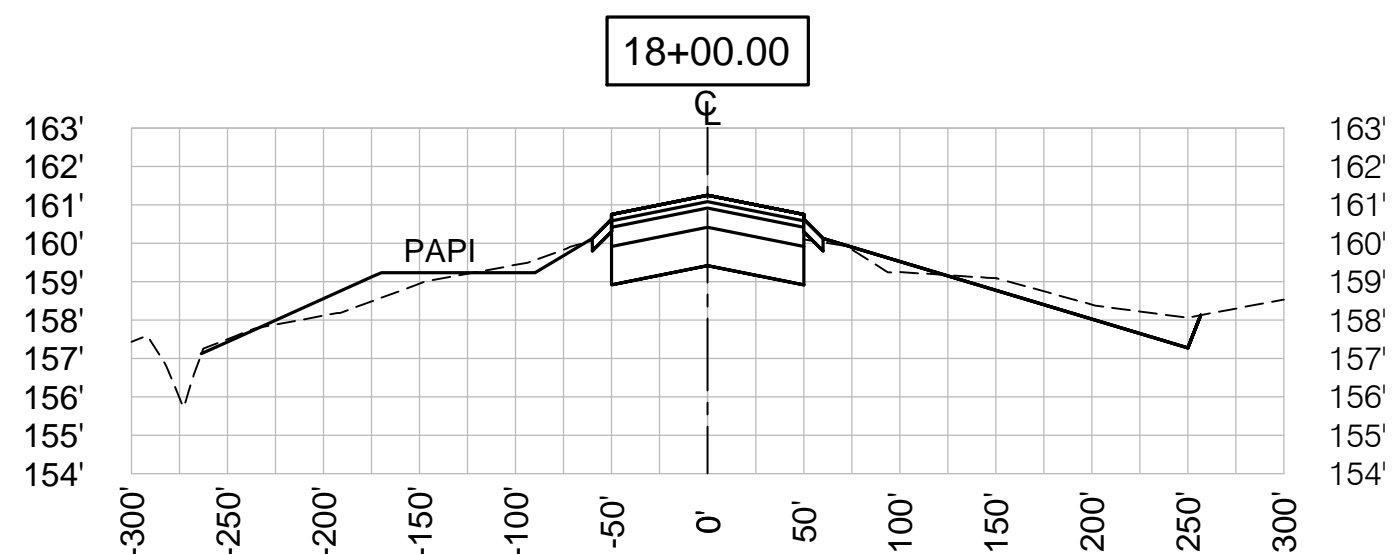
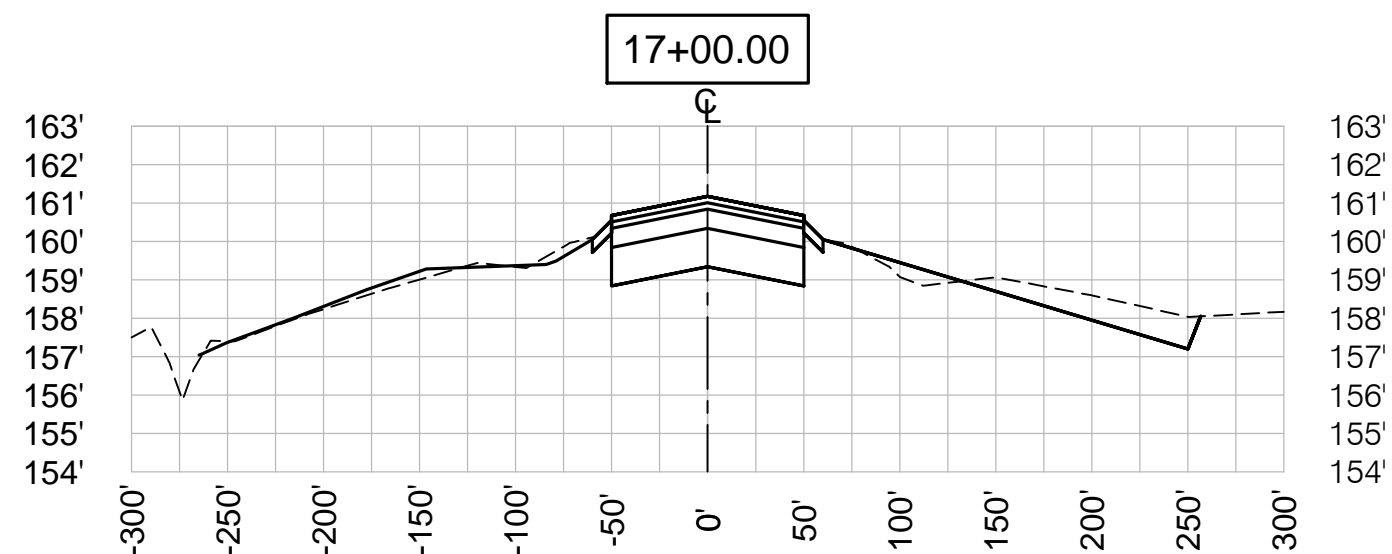
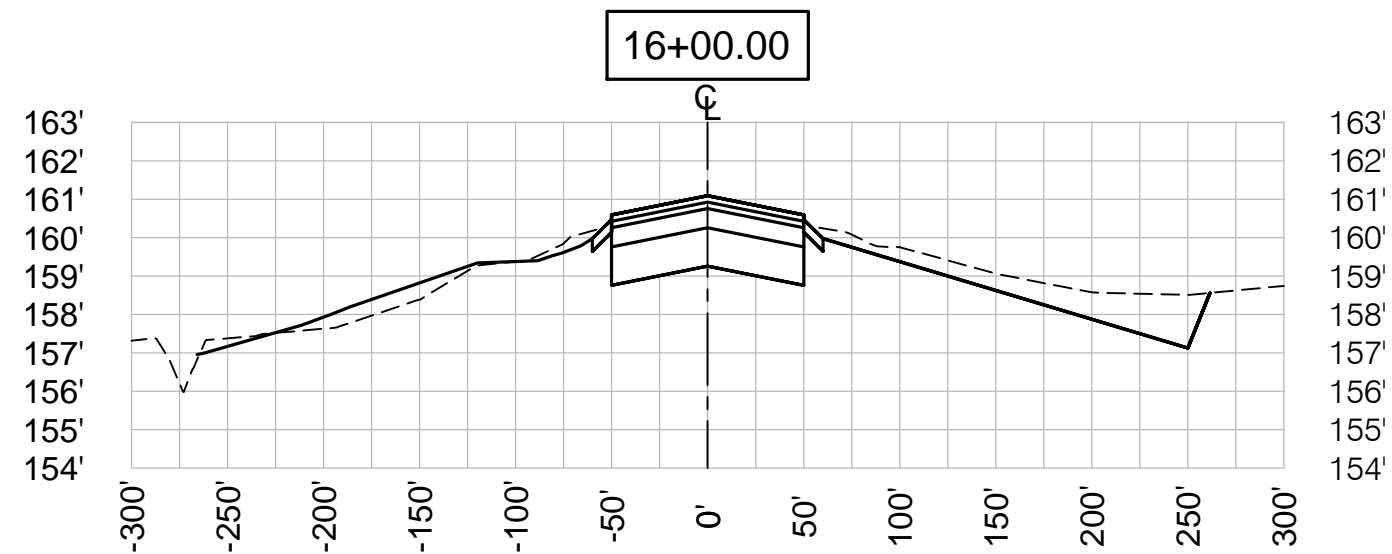
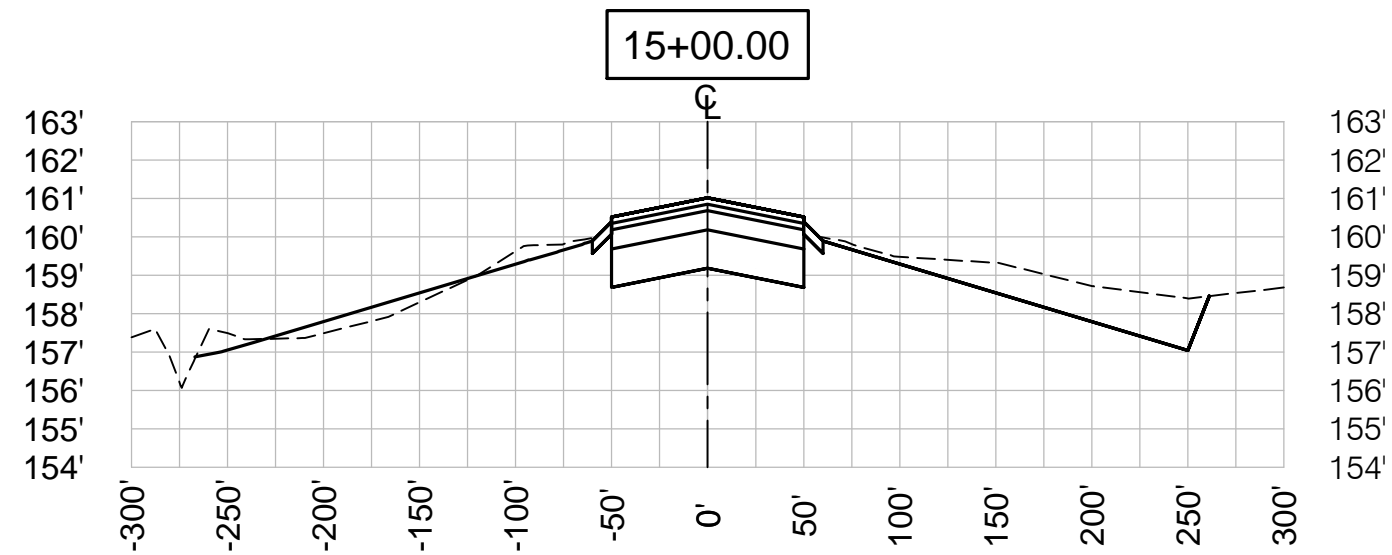
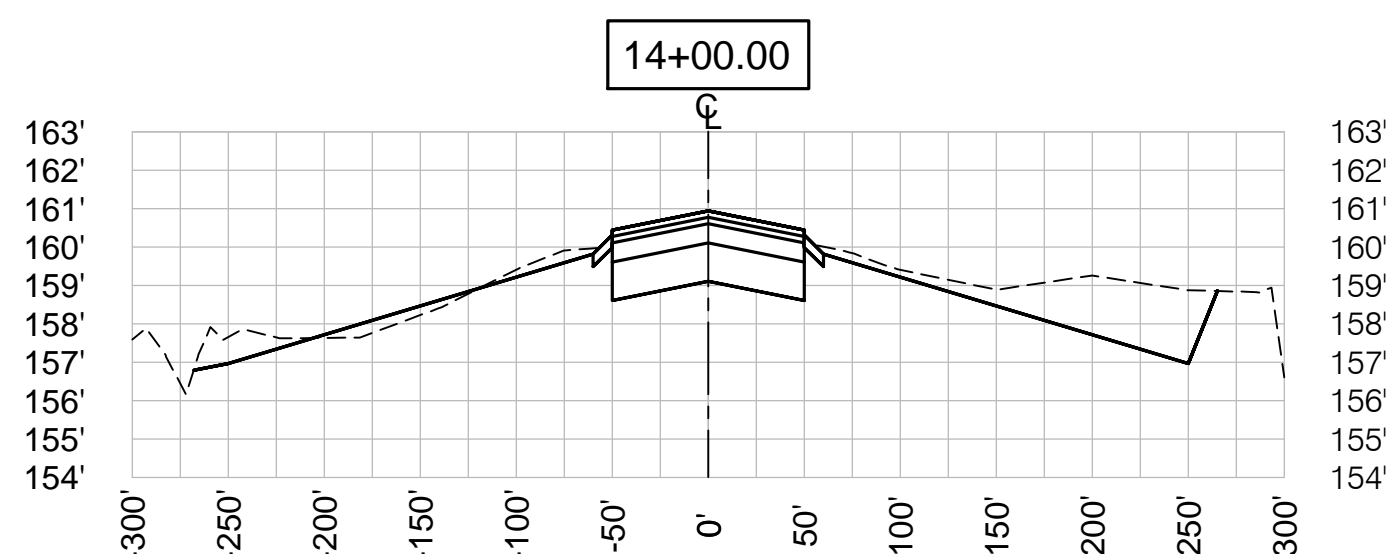
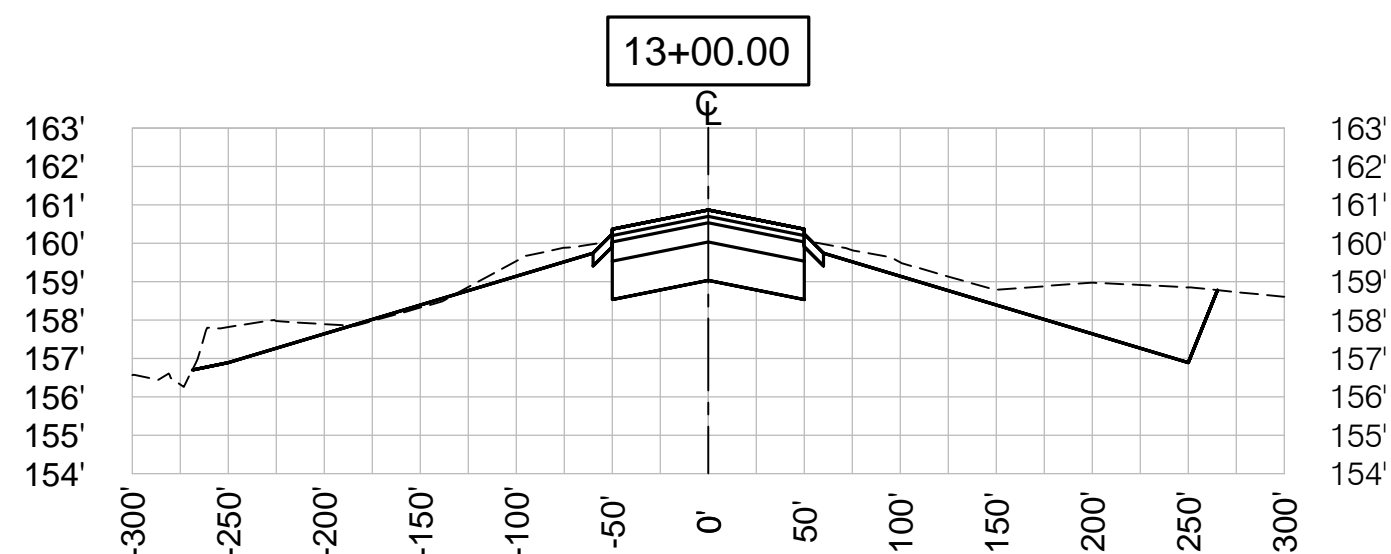
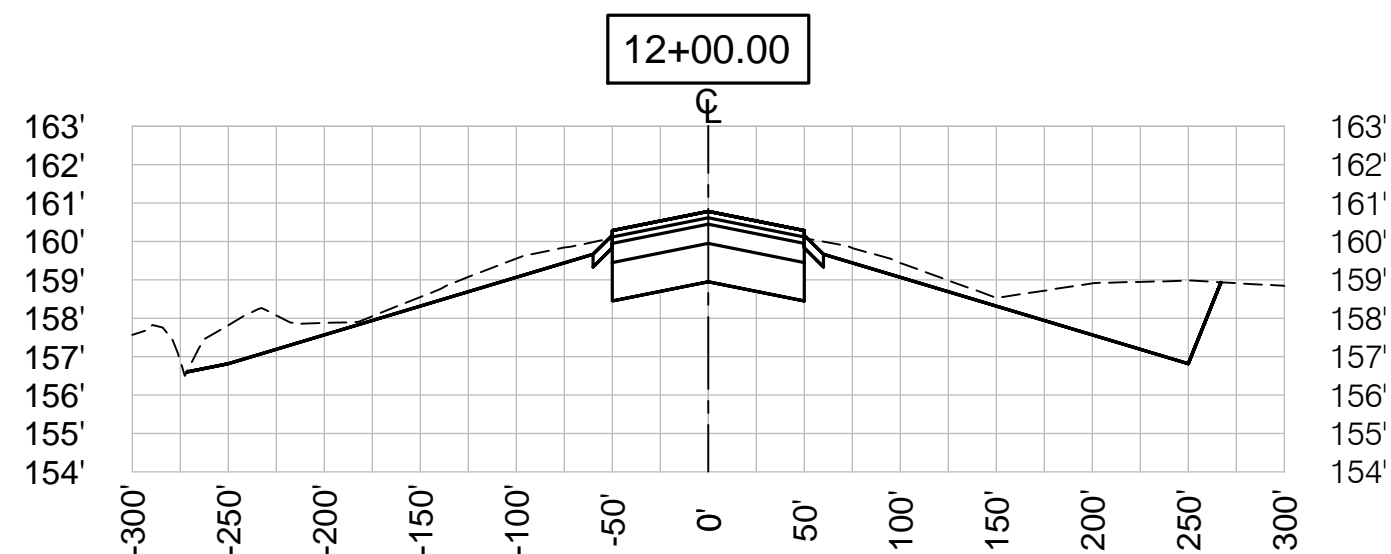
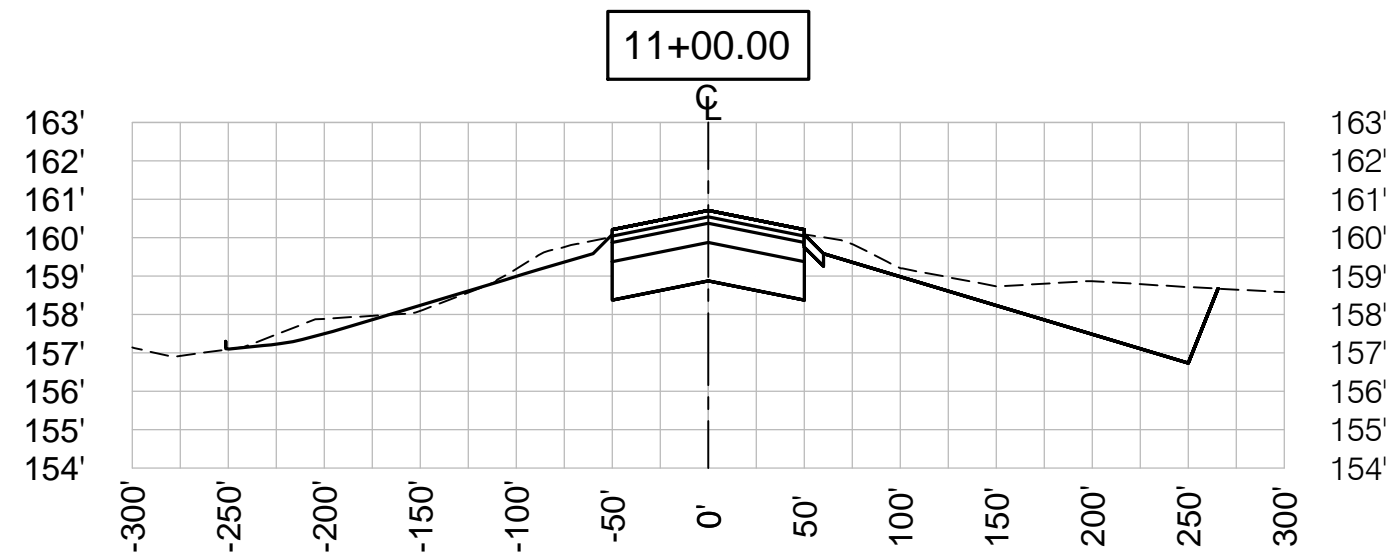
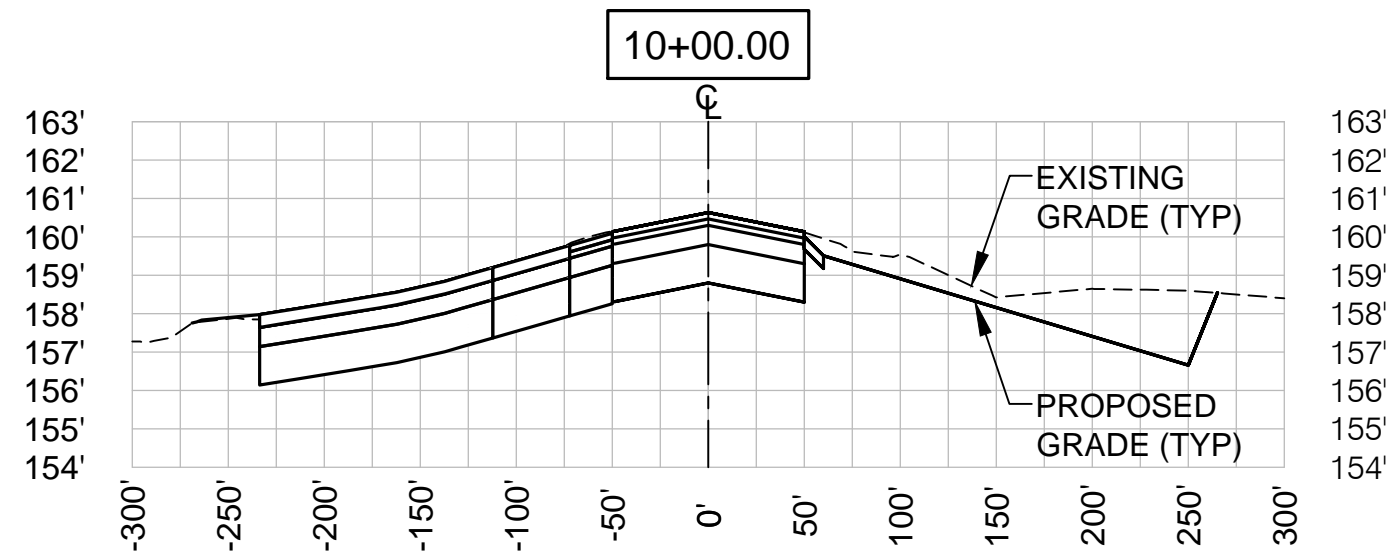
CITY OF MCMINNVILLE
MCMINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

PAVEMENT DETAILS

DRAWING NO.
C-33

SHEET NO.
43 OF 80

S:\Municipal\Projects\40228 City of McMinnville\008\03-CADD-Working Drawings\C-34 CROSS SECTIONS.dwg



NOTES:

- SEE SHEET C-31 FOR TYPICAL RUNWAY 4-22 SECTION.
- UNDERDRAINS NOT SHOWN (TYPICAL).

RWY 4-22 CROSS SECTIONS


SCALE: 1"=100' HORIZ
1"=5' VERT

1
C-34



VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING.
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

NO.	DATE	BY	APPR	REVISIONS



PORTLAND OFFICE
5331 SW MACADAM AVE., #207
PORTLAND, OR 97239
503.419.2130
503.639.2710 FAX

DESIGNED BY:
BFC

DRAWN BY:
SLK

CHECKED BY:
JNR

SCALE:
AS NOTED

DATE:
APRIL 2016

PROJECT NO:
40228.008.03

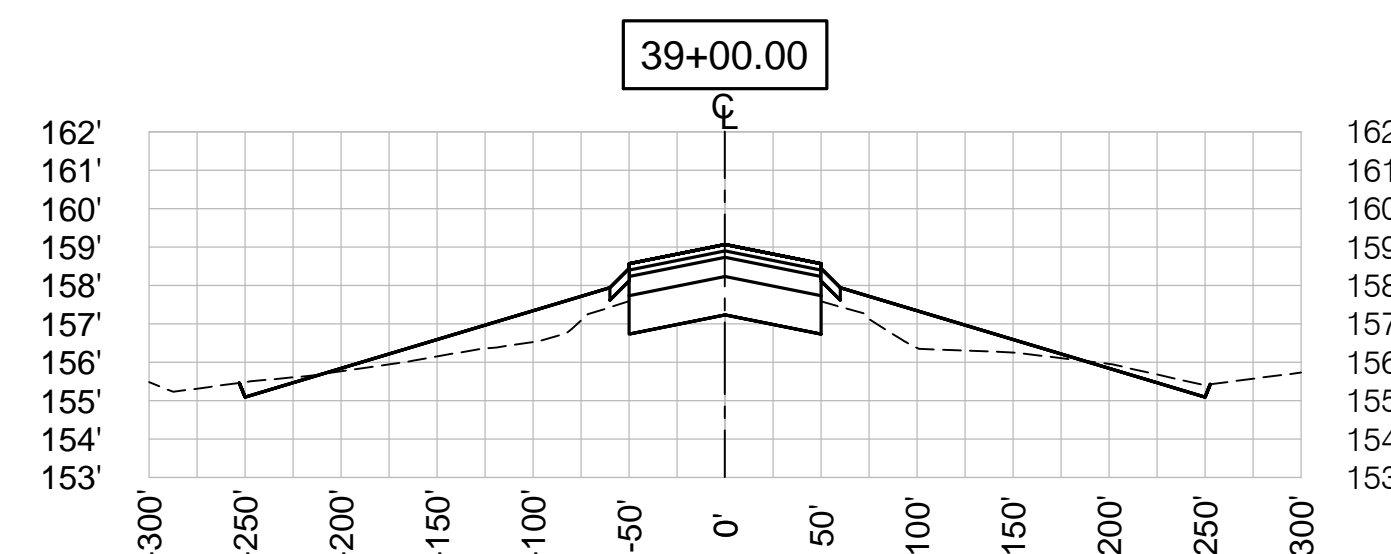
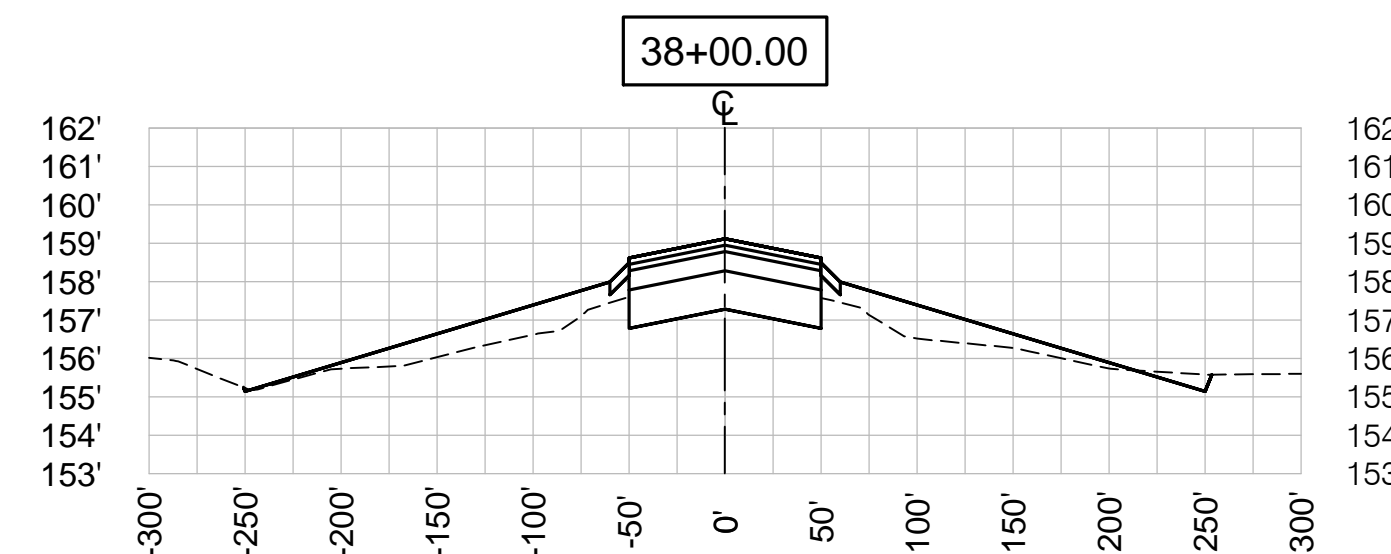
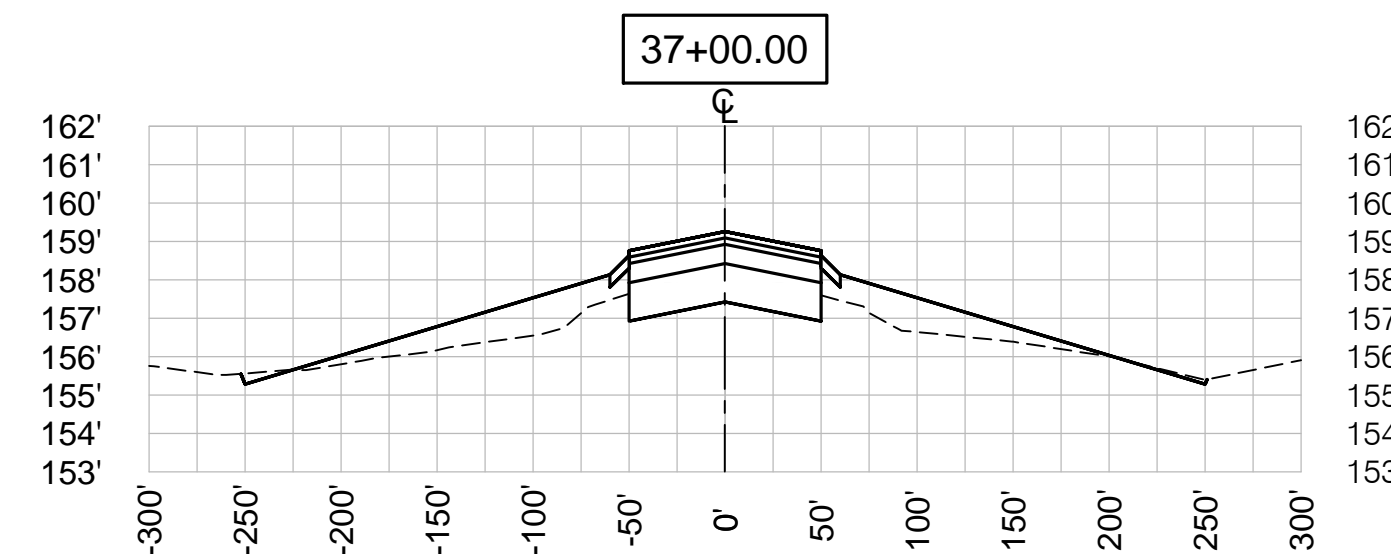
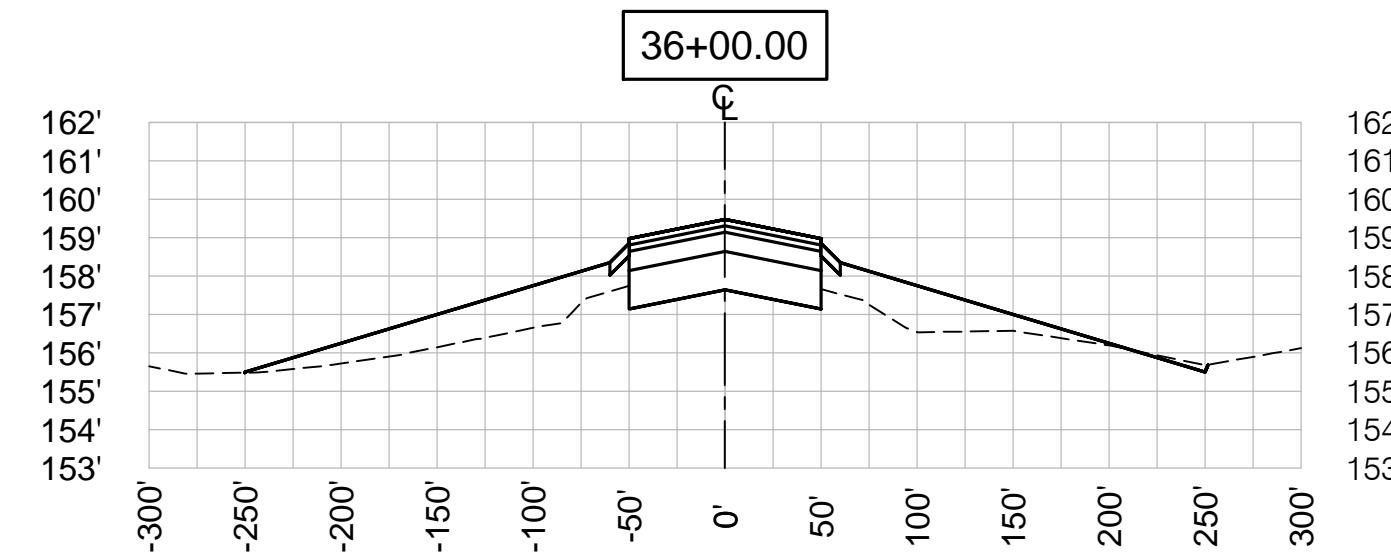
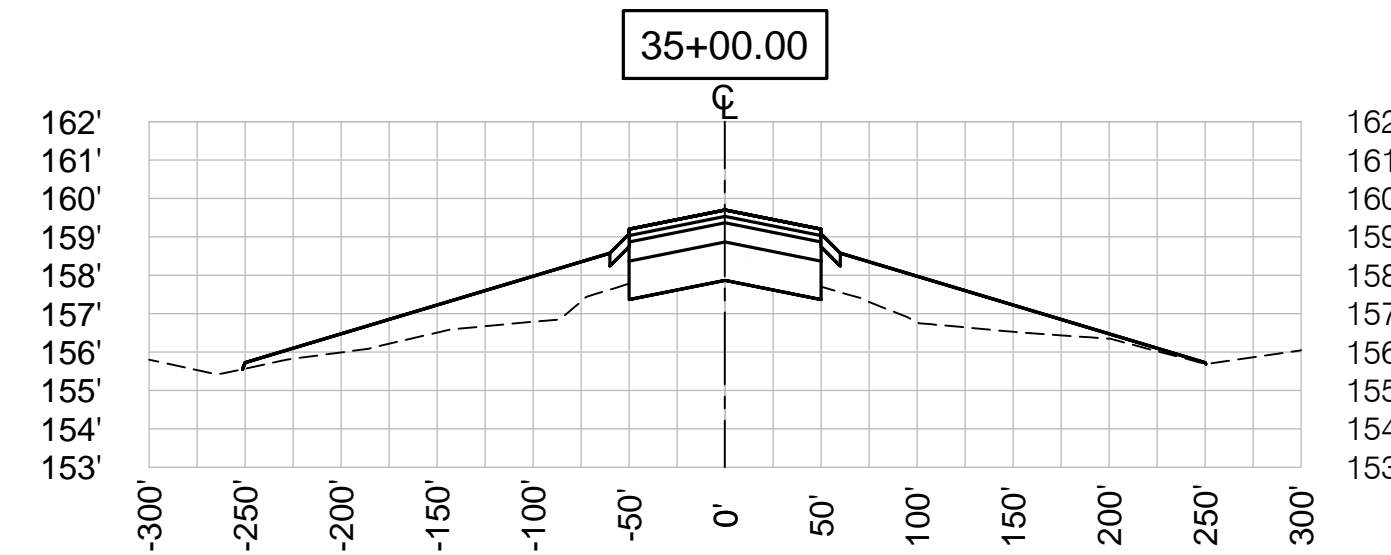
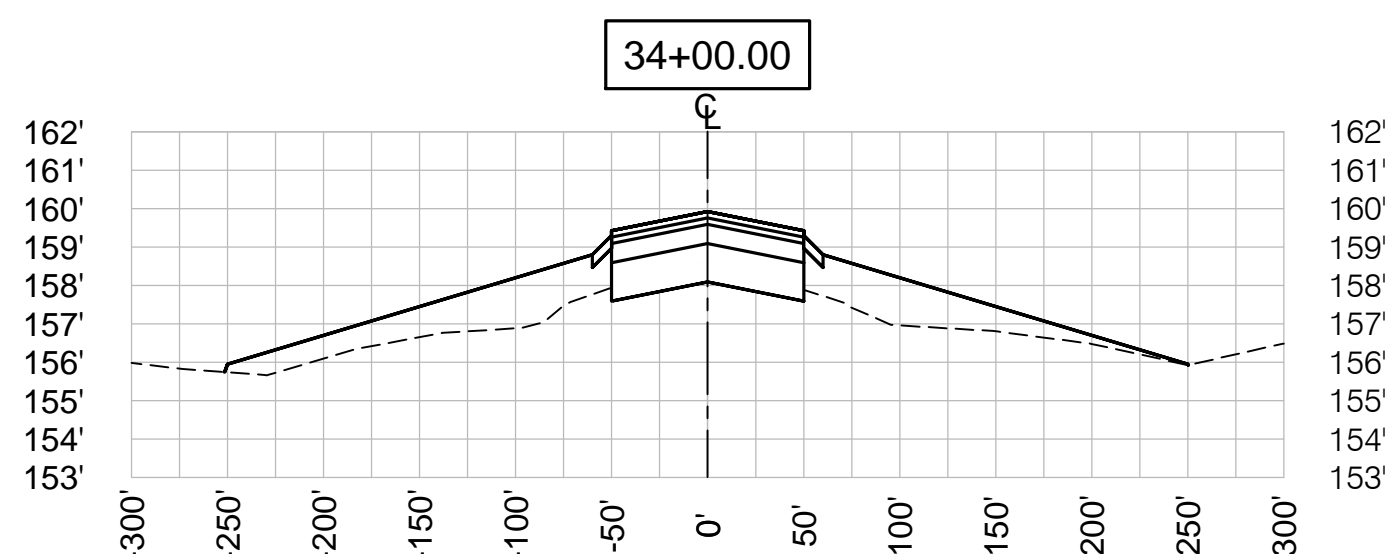
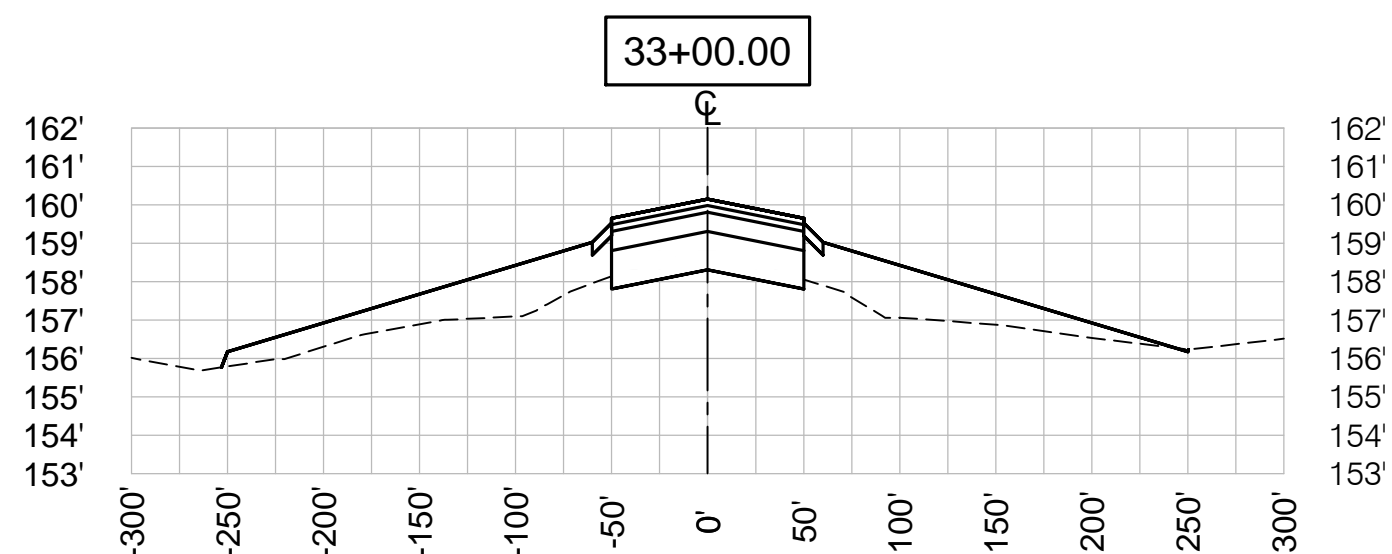
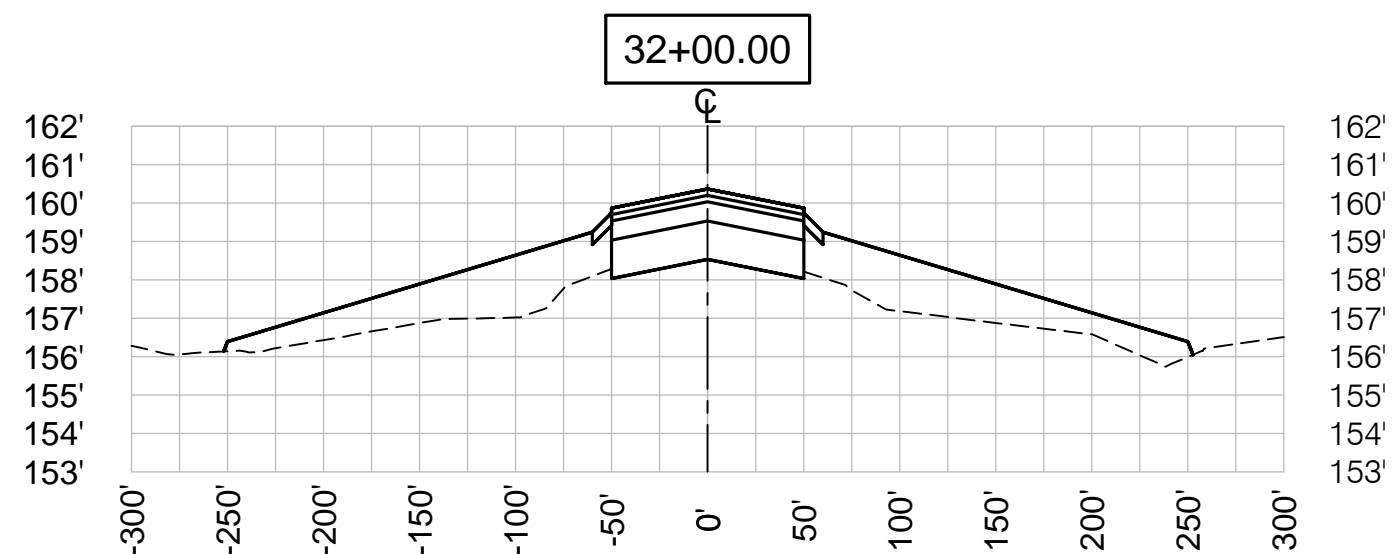
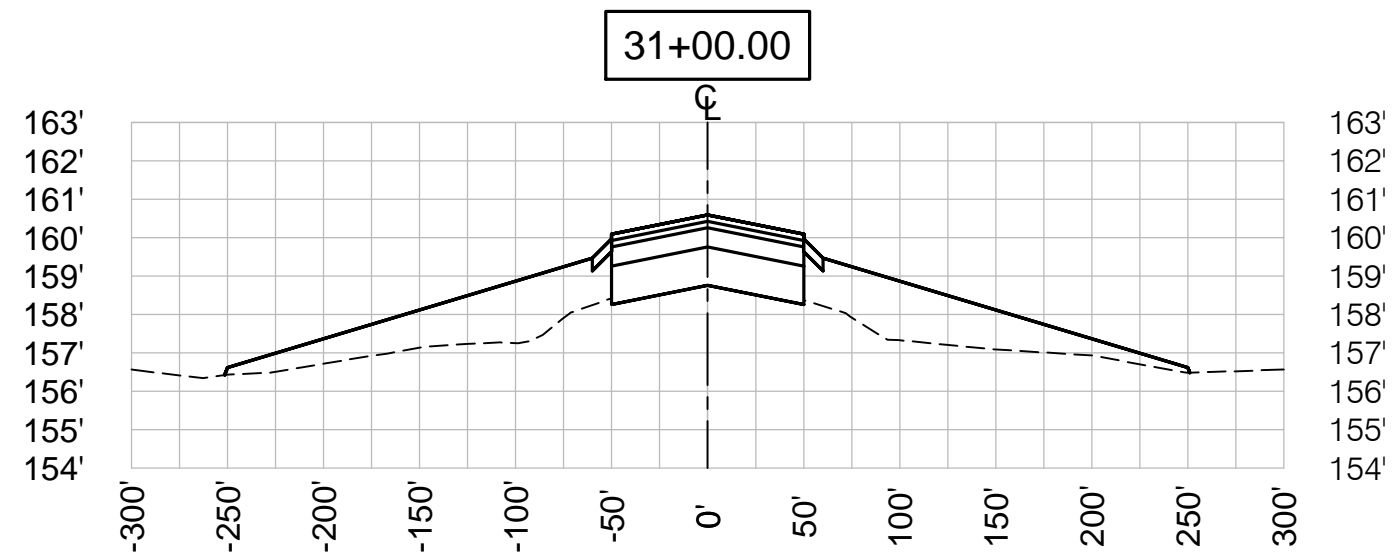
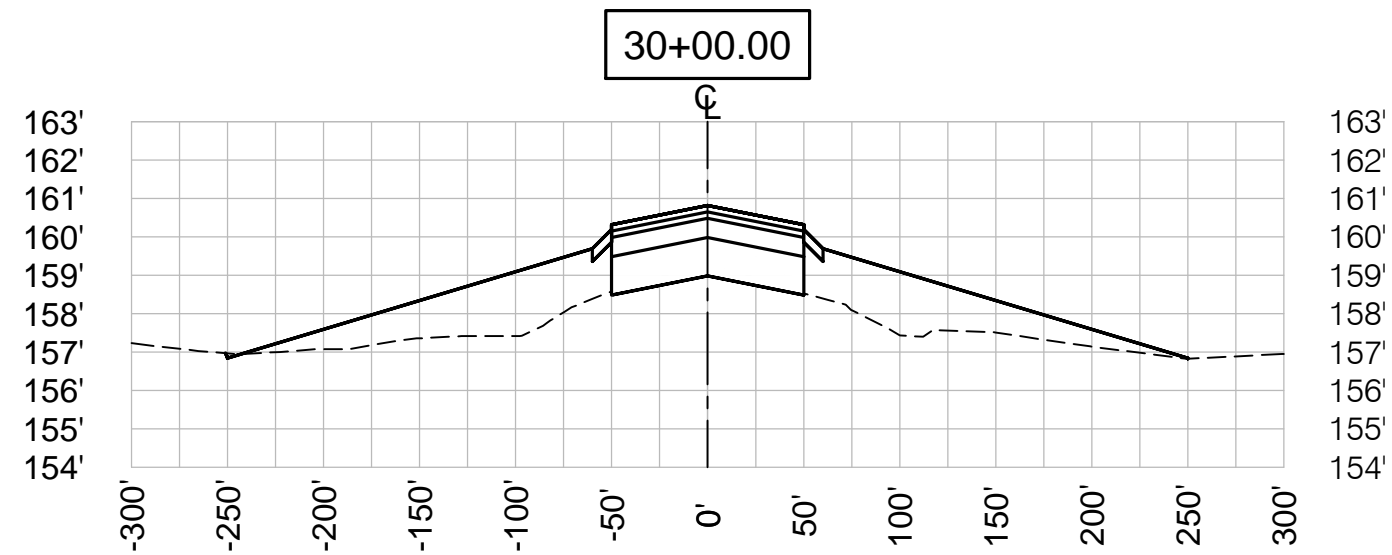
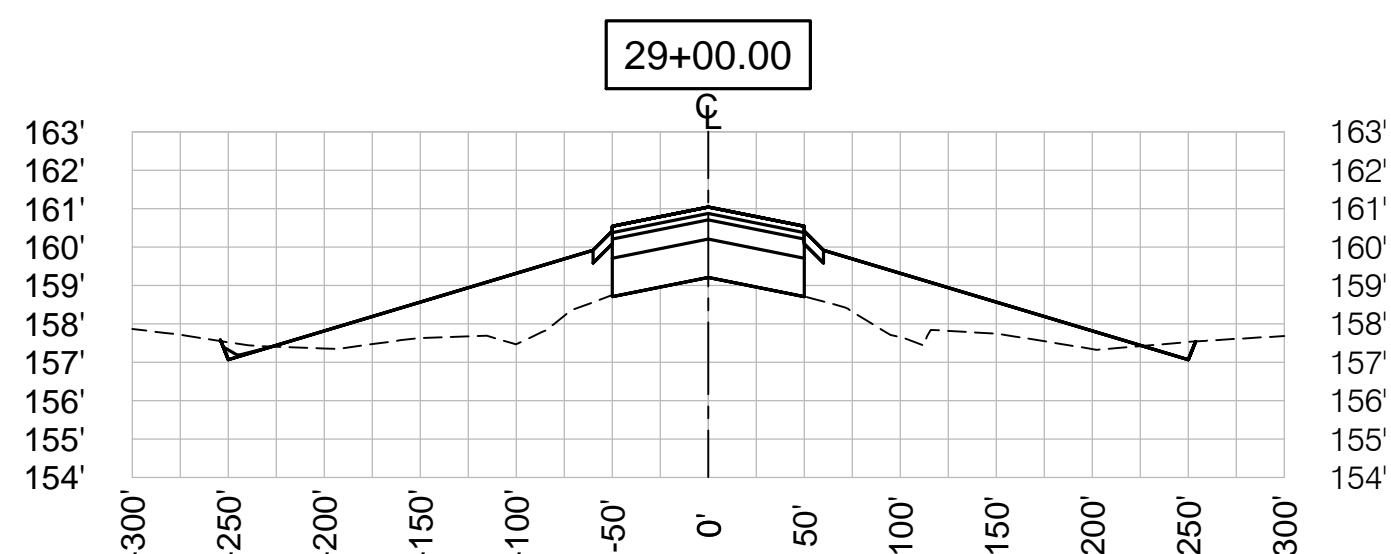
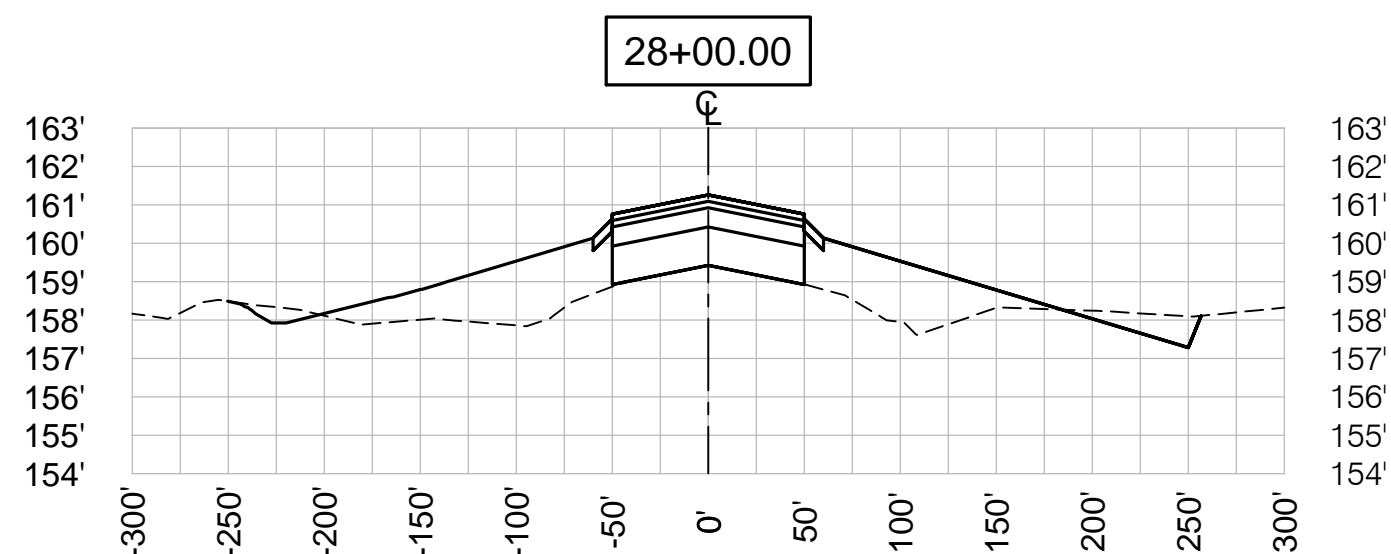
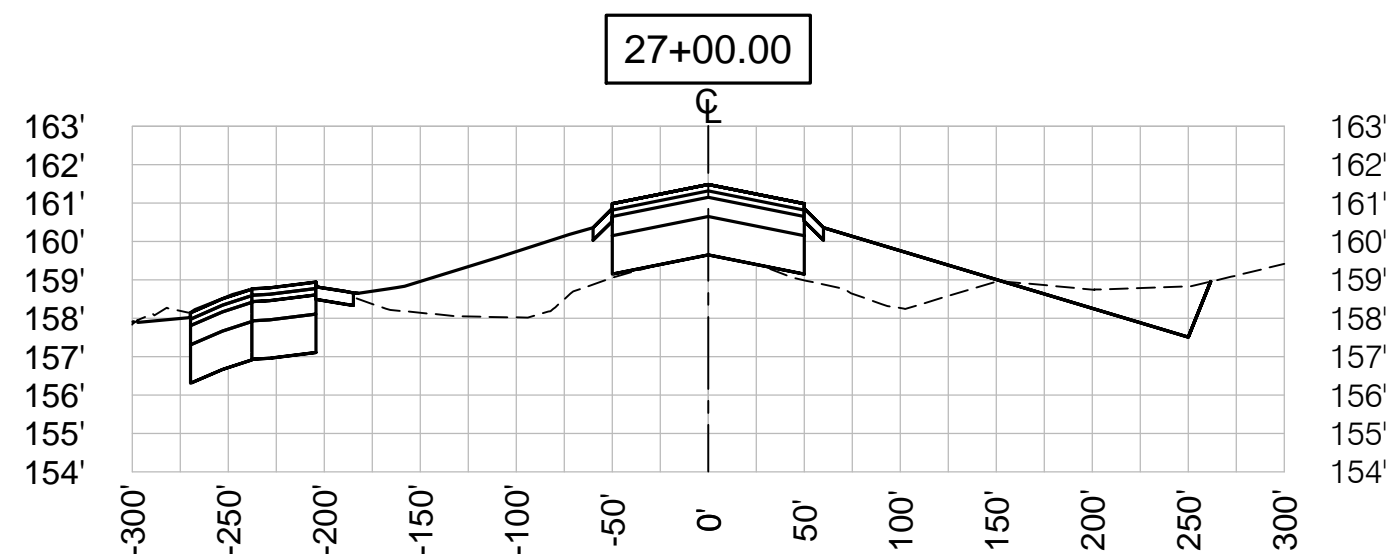
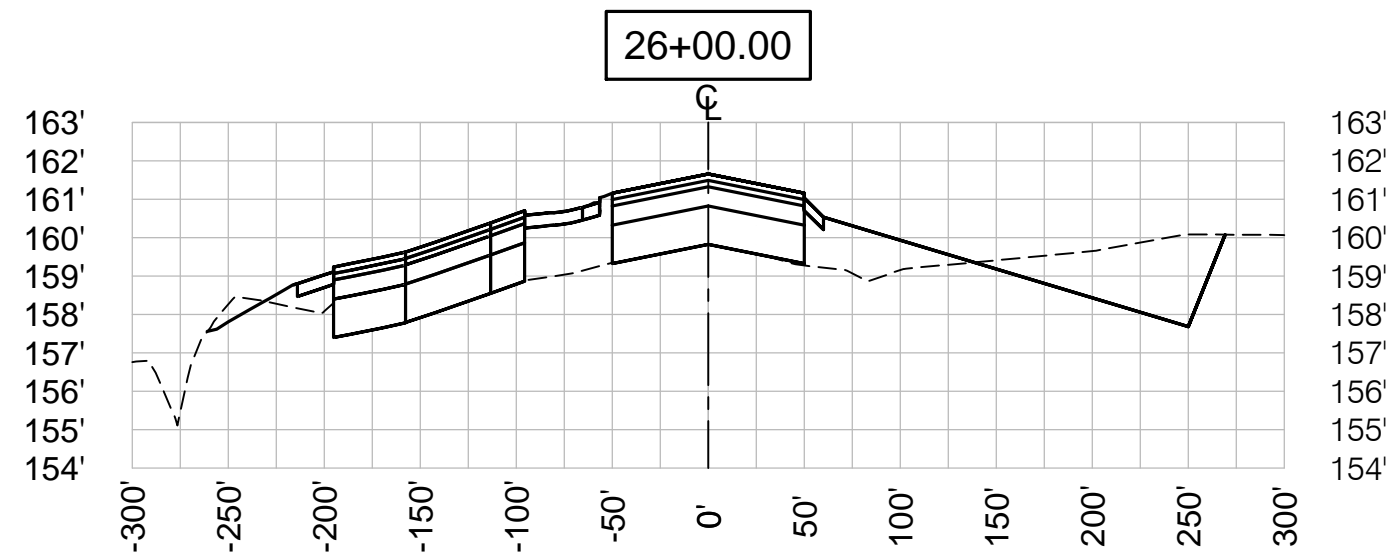
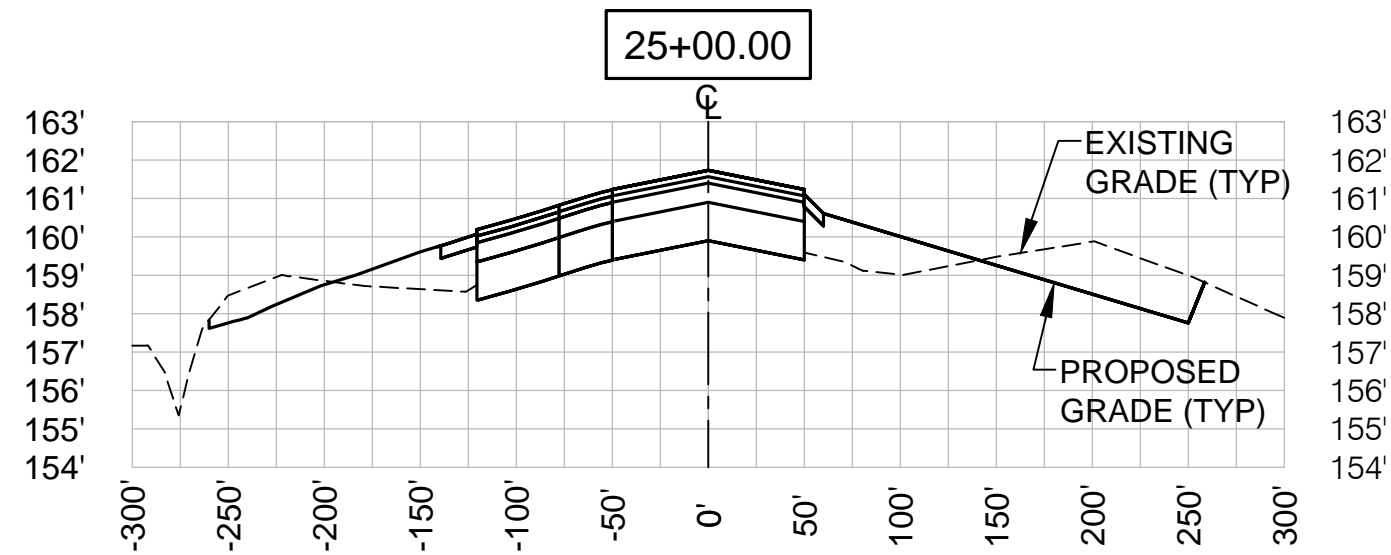
CITY OF MCMINNVILLE
MCMINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

RUNWAY 4-22 CROSS SECTIONS
STA 10+00 TO STA 24+00

DRAWING NO.
C-34

SHEET NO.
44 OF 80

S:\Municipal\Projects\40228 City of McMinnville\008\03-CADD-Working Drawings\C-35 CROSS SECTIONS-REV\A.dwg



NOTES:

- SEE SHEET C-31 FOR TYPICAL RUNWAY 4-22 SECTION.
- UNDERDRAINS NOT SHOWN (TYPICAL).

RWY 4-22 CROSS SECTIONS


SCALE: 1"=100' HORIZ
1"=5' VERT

1
C-35



VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING.
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

NO.	DATE	BY	APPR	REVISIONS



PORTLAND OFFICE
5331 SW MACADAM AVE., #207
PORTLAND, OR 97239
503.419.2130
503.639.2710 FAX

DATE: APRIL 2016

PROJECT NO: 40228.008.03

DESIGNED BY: BFC
DRAWN BY: SLK
CHECKED BY: JNR
SCALE: AS NOTED

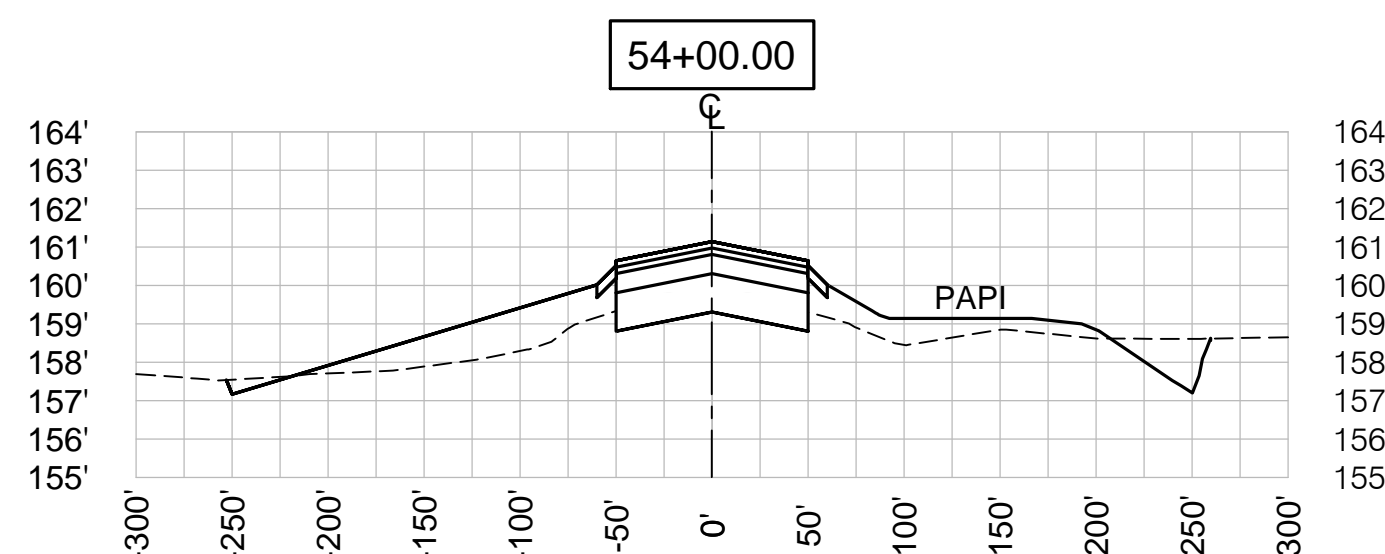
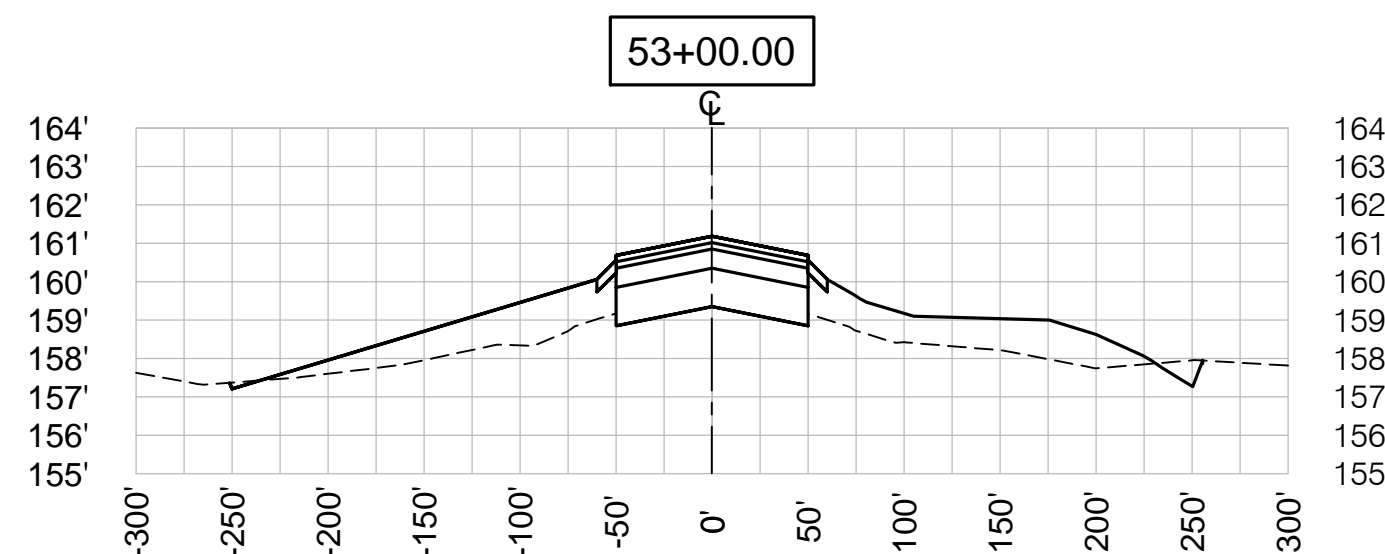
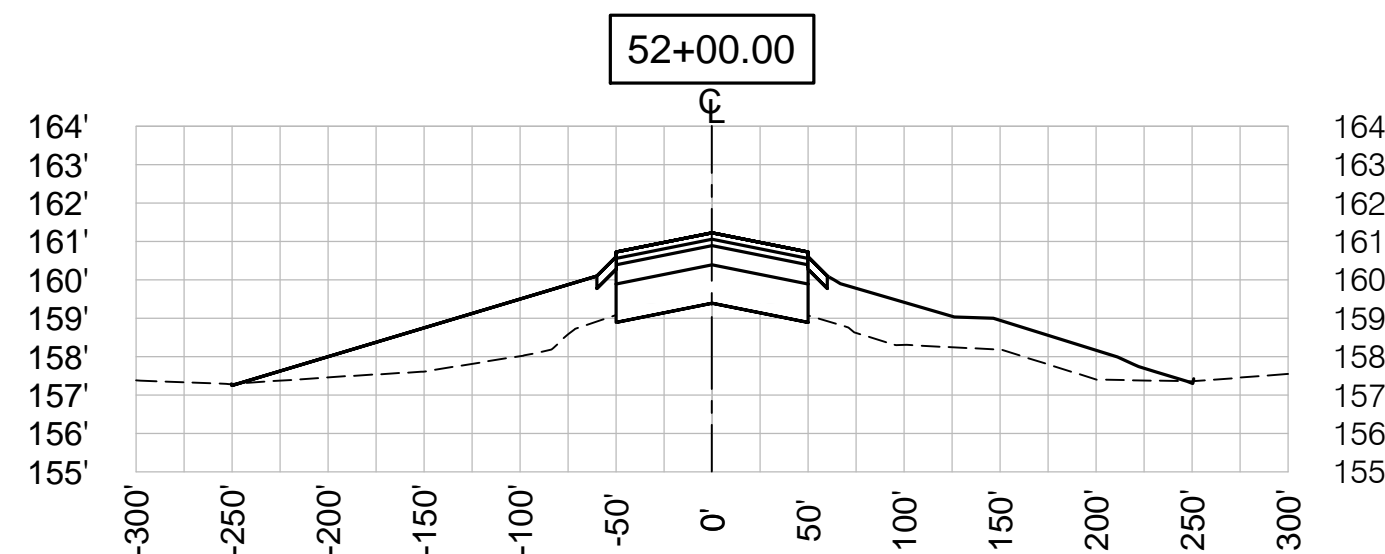
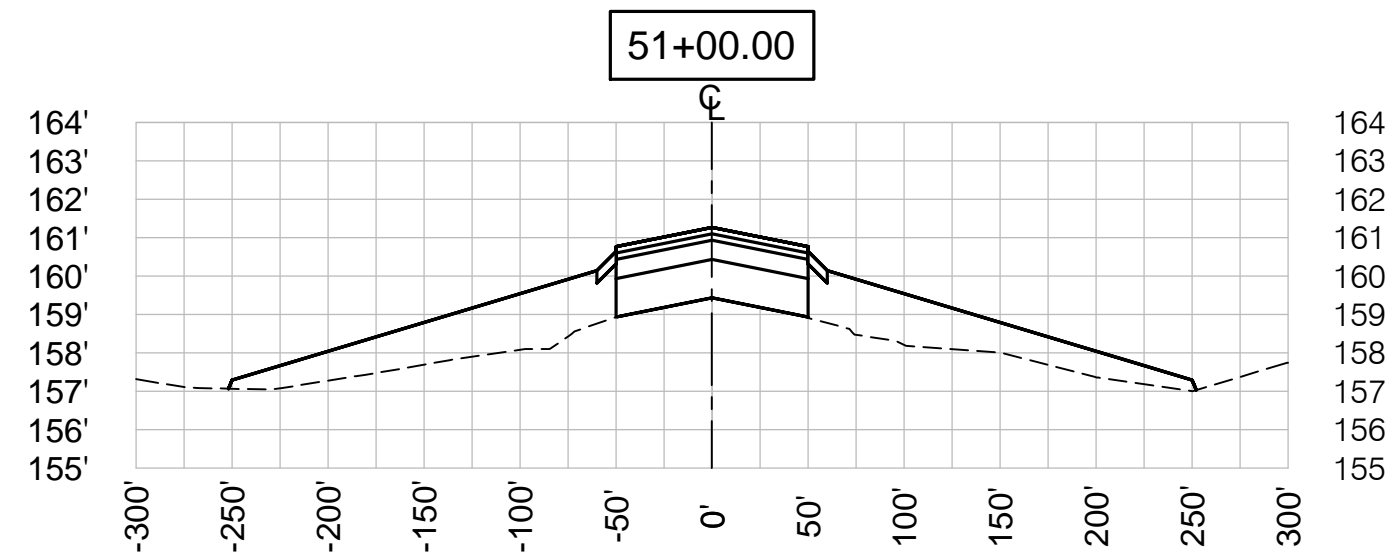
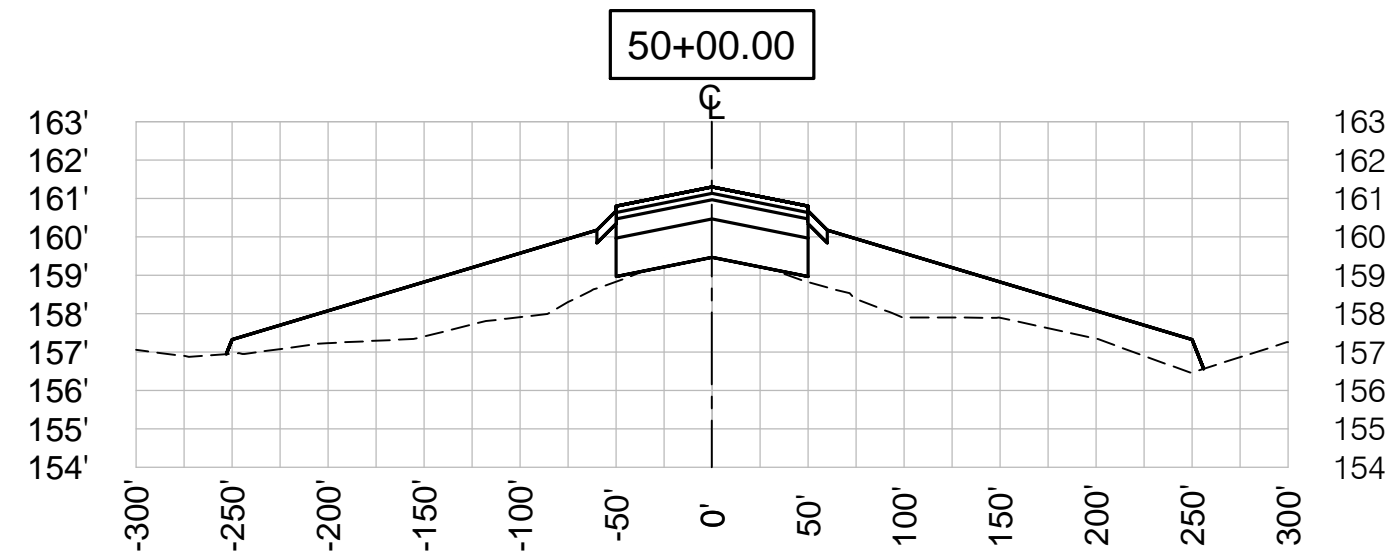
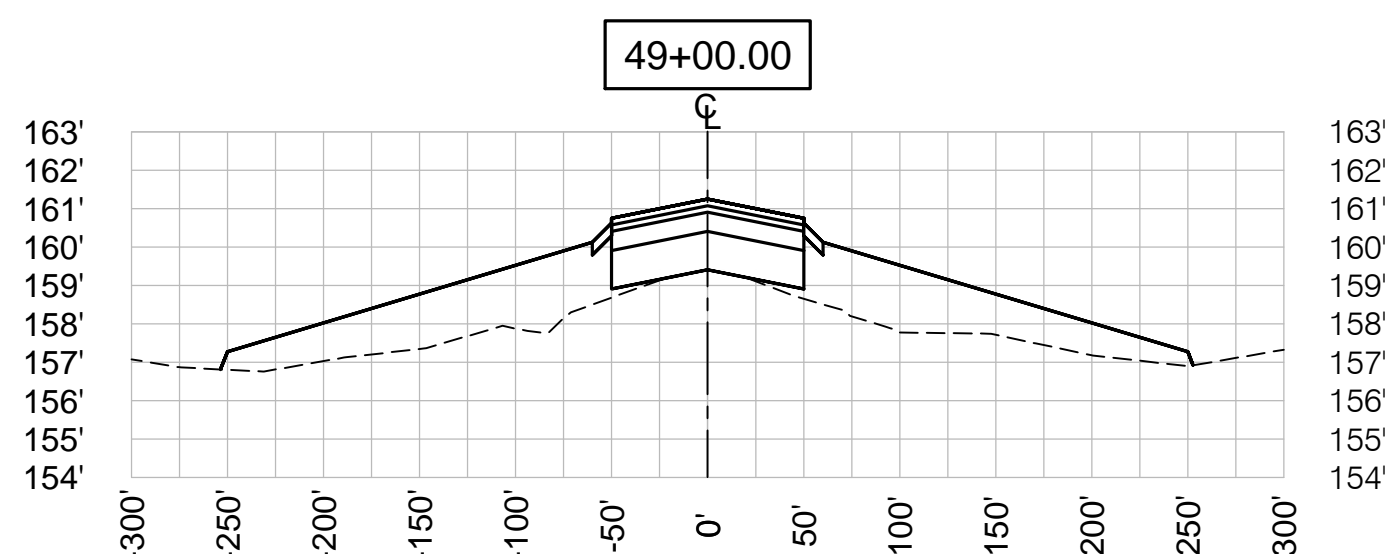
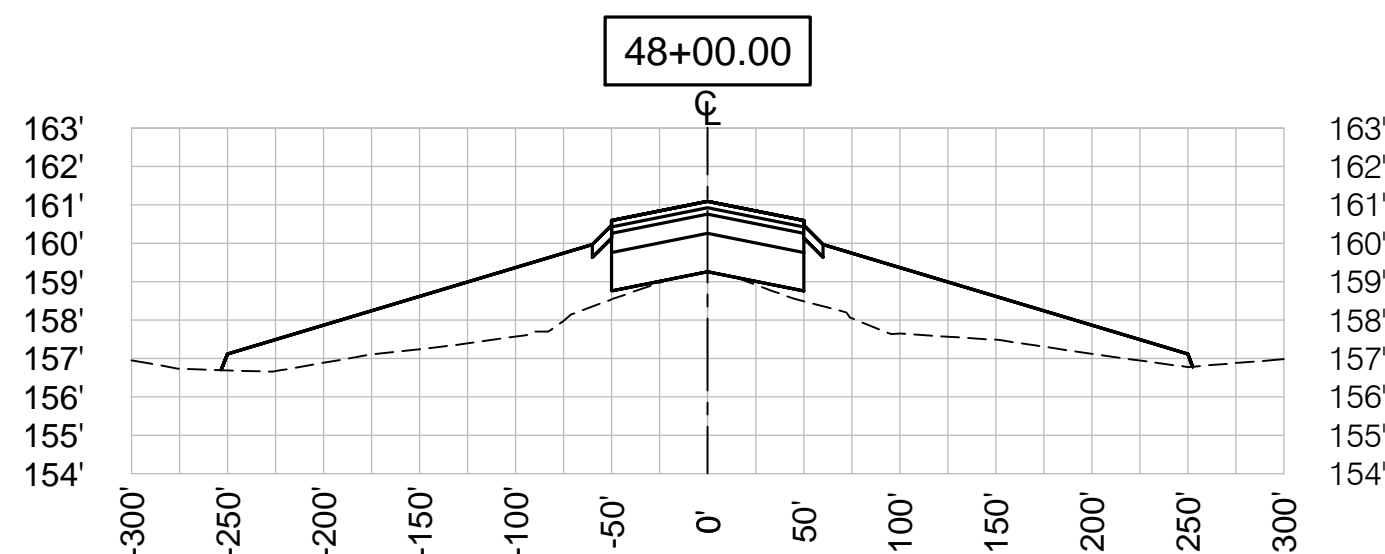
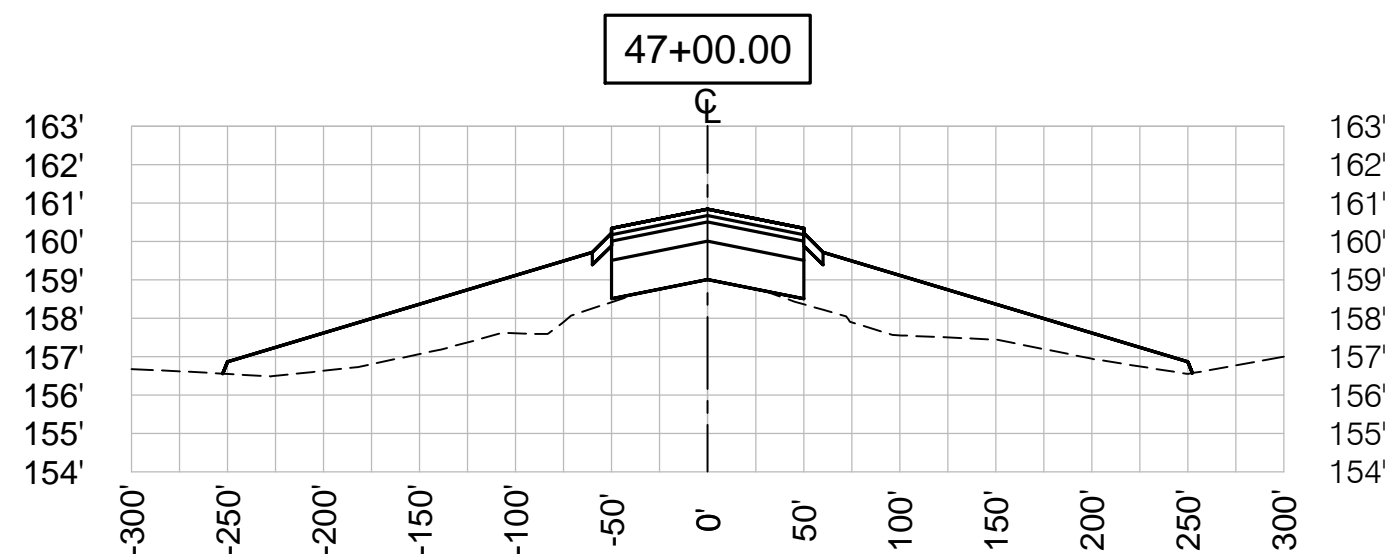
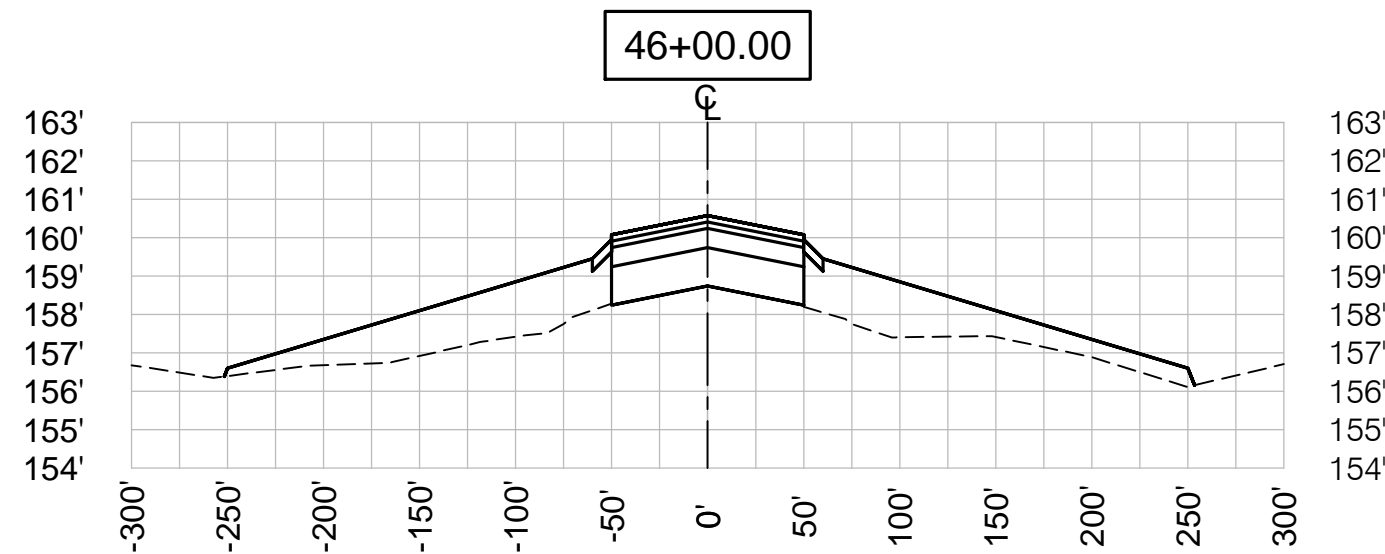
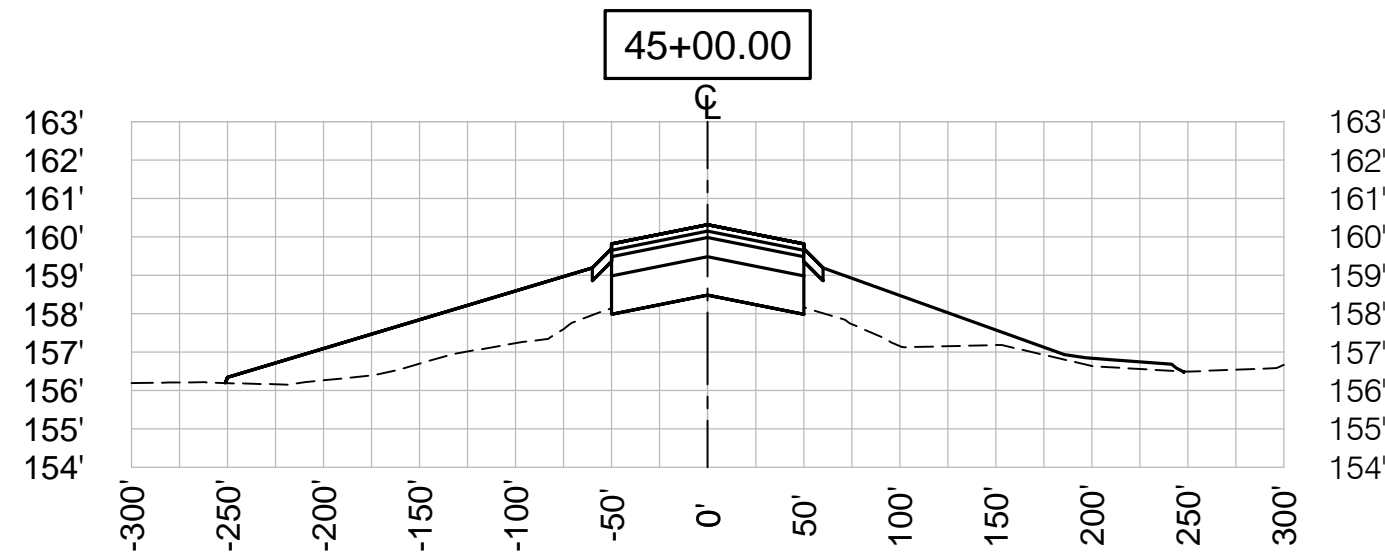
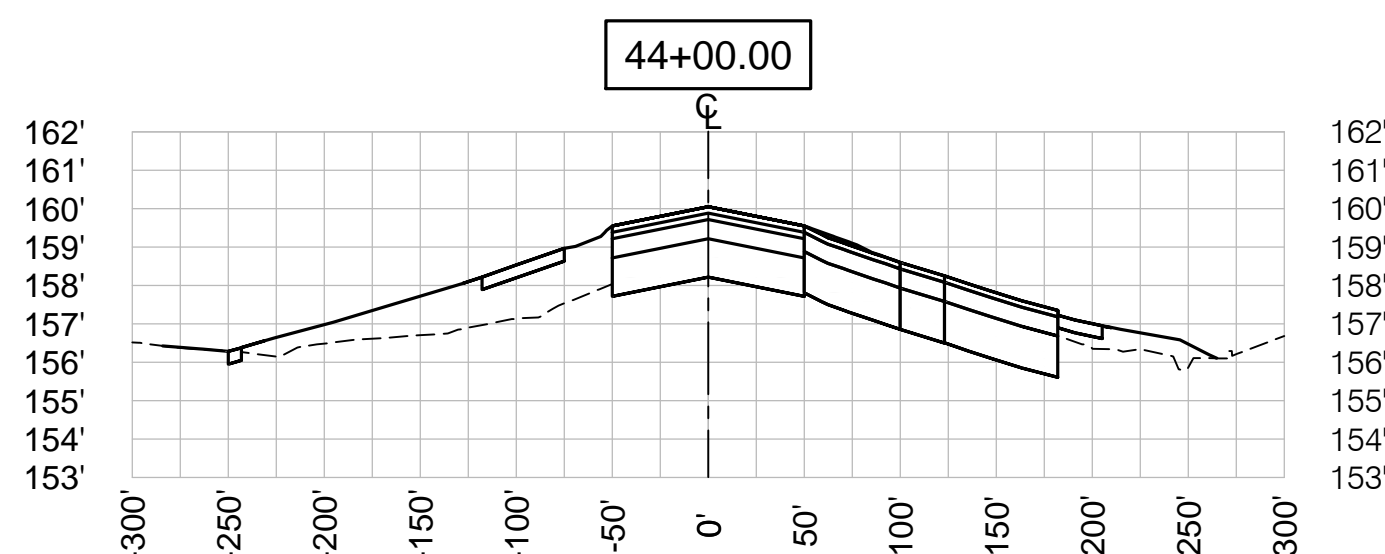
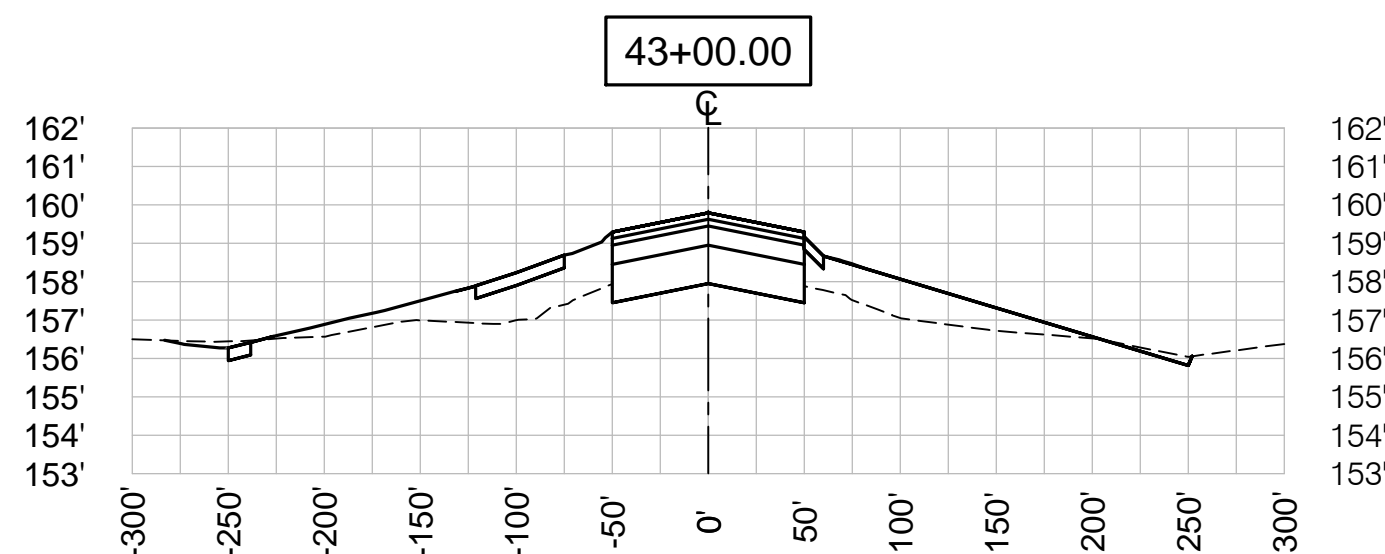
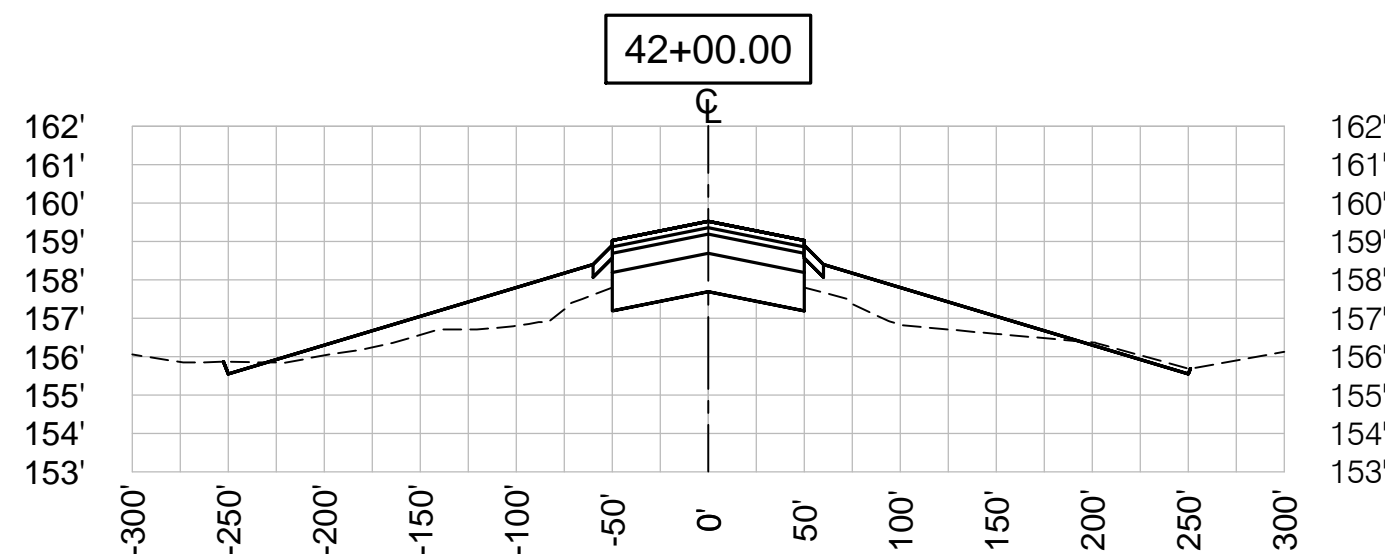
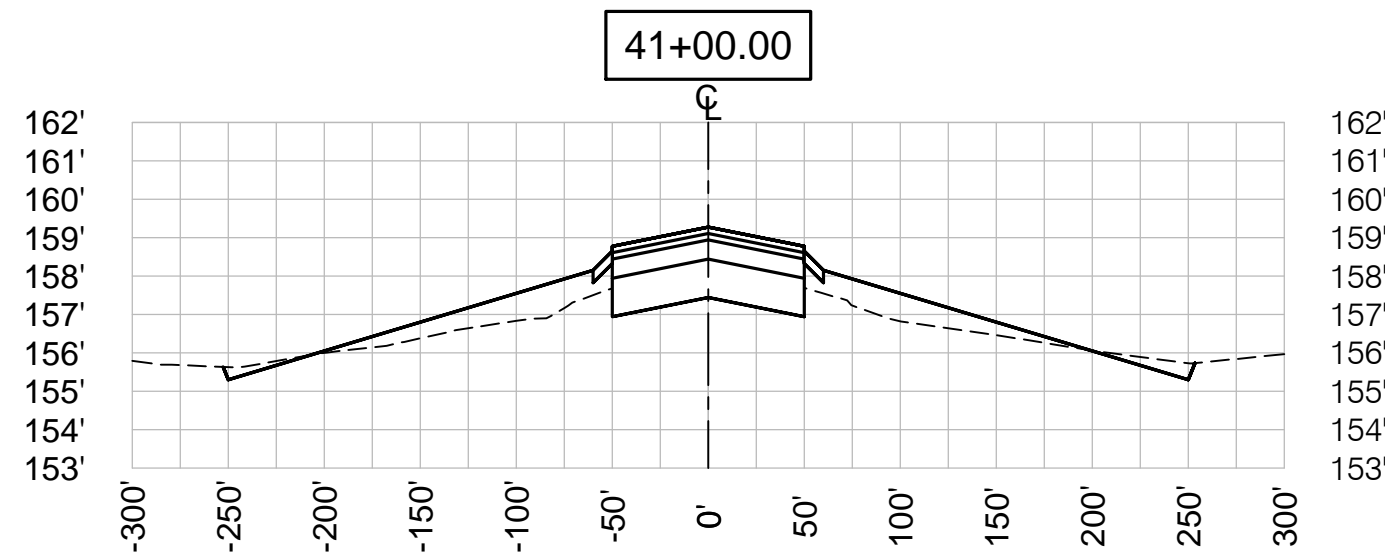
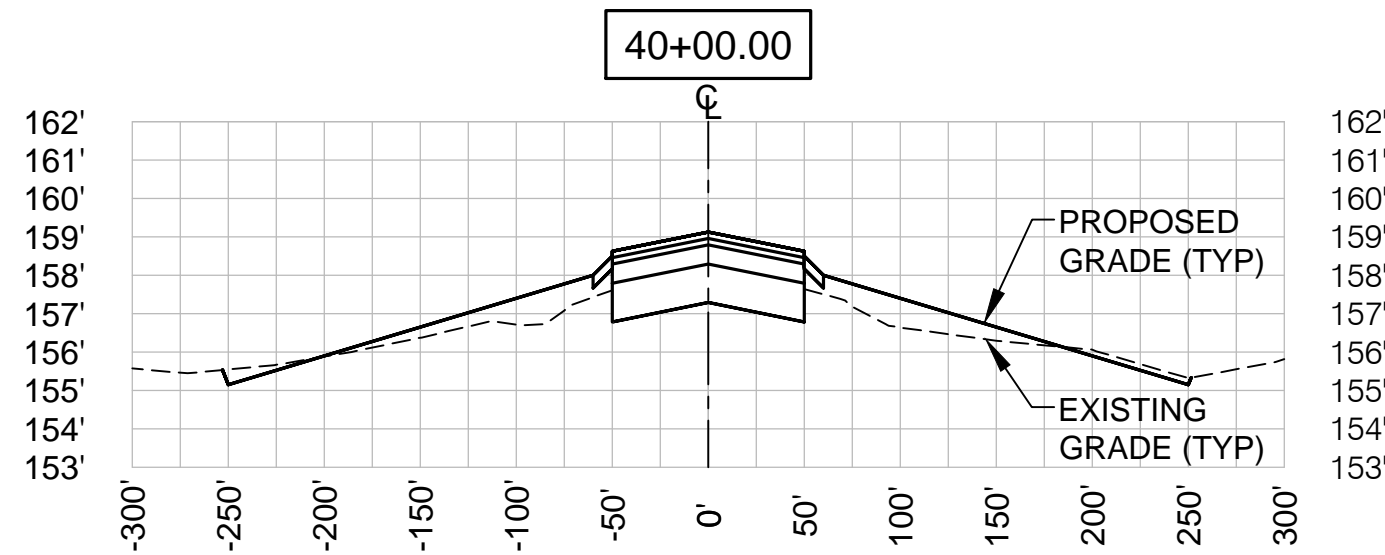
CITY OF MCMINNVILLE
MCMINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

RUNWAY 4-22 CROSS SECTIONS
STA 25+00 TO STA 39+00

DRAWING NO.
C-35

SHEET NO.
45 OF 80

S:\Municipal\Projects\40228 City of McMinnville\008\03\----CADD\---Working Drawings\C-36 CROSS SECTIONS-REV\A.dwg



NOTES:

- SEE SHEET C-31 FOR TYPICAL RUNWAY 4-22 SECTION.
- UNDERDRAINS NOT SHOWN (TYPICAL).

RWY 4-22 CROSS SECTIONS


SCALE: 1"=100' HORIZ
1"=5' VERT

1
C-36



VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING.
0" 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

NO.	DATE	BY	APPR	REVISIONS



PORTLAND OFFICE
5331 SW MACADAM AVE., #207
PORTLAND, OR 97239
503.419.2130
503.639.2710 FAX

DATE: APRIL 2016

PROJECT NO: 40228.008.03

DESIGNED BY: BFC
DRAWN BY: SLK
CHECKED BY: JNR
SCALE: AS NOTED

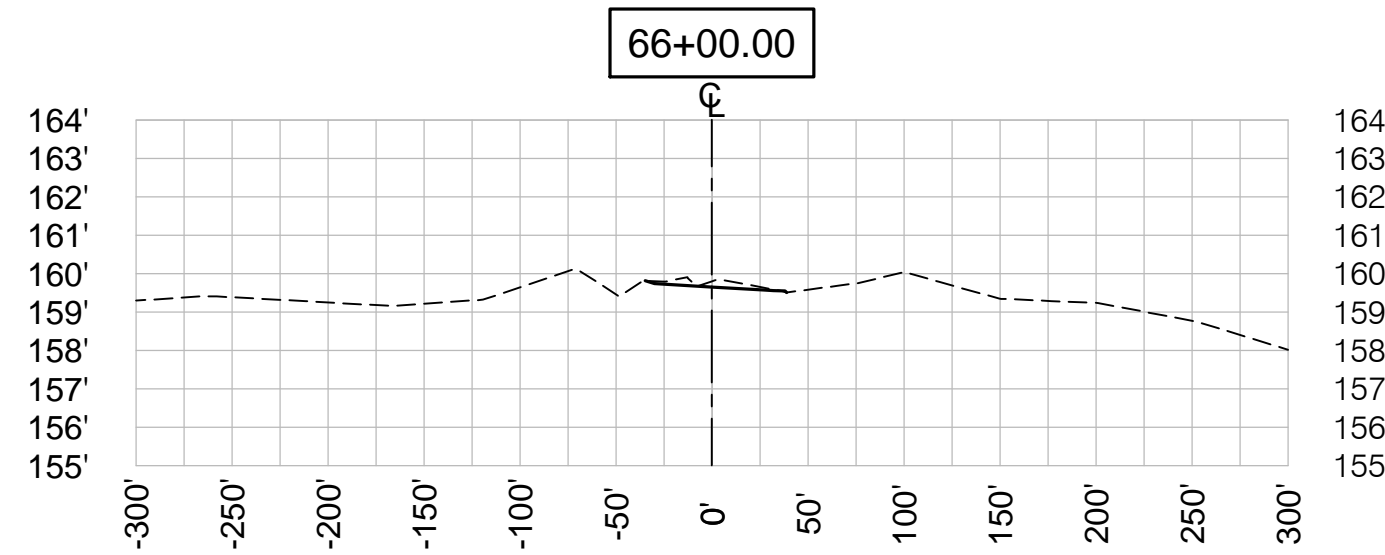
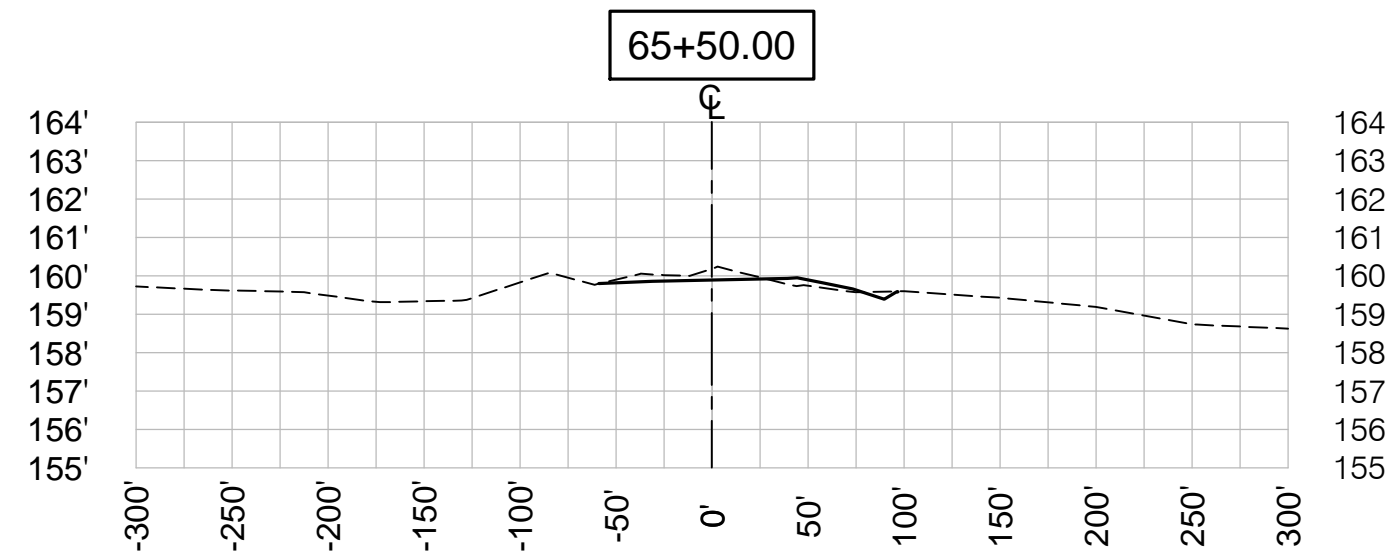
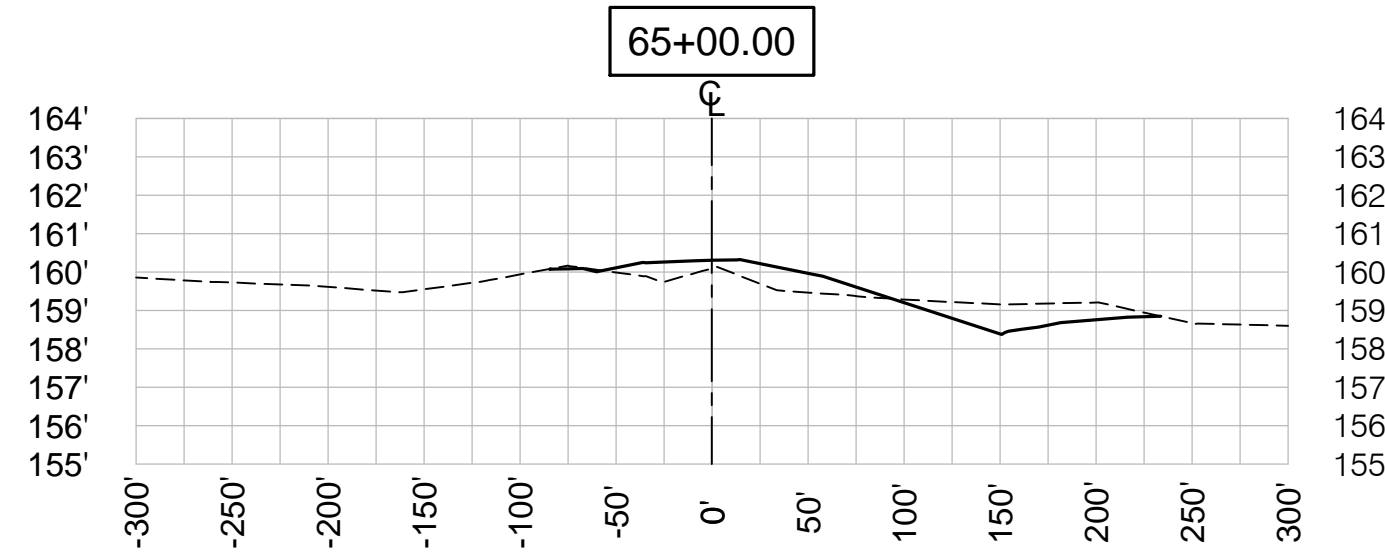
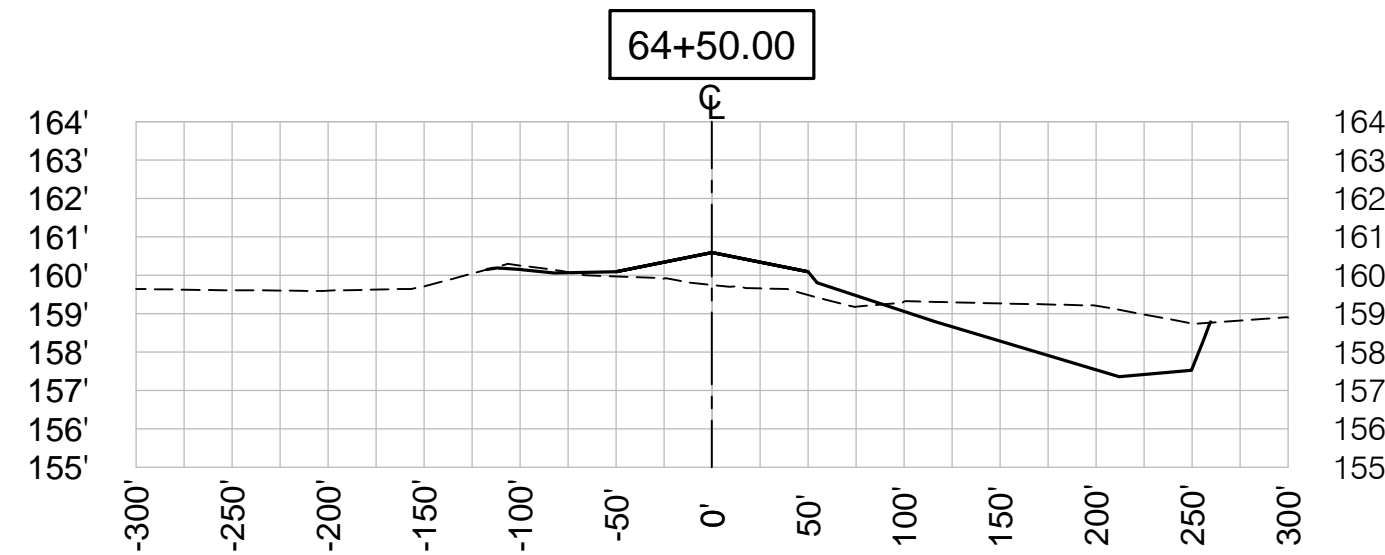
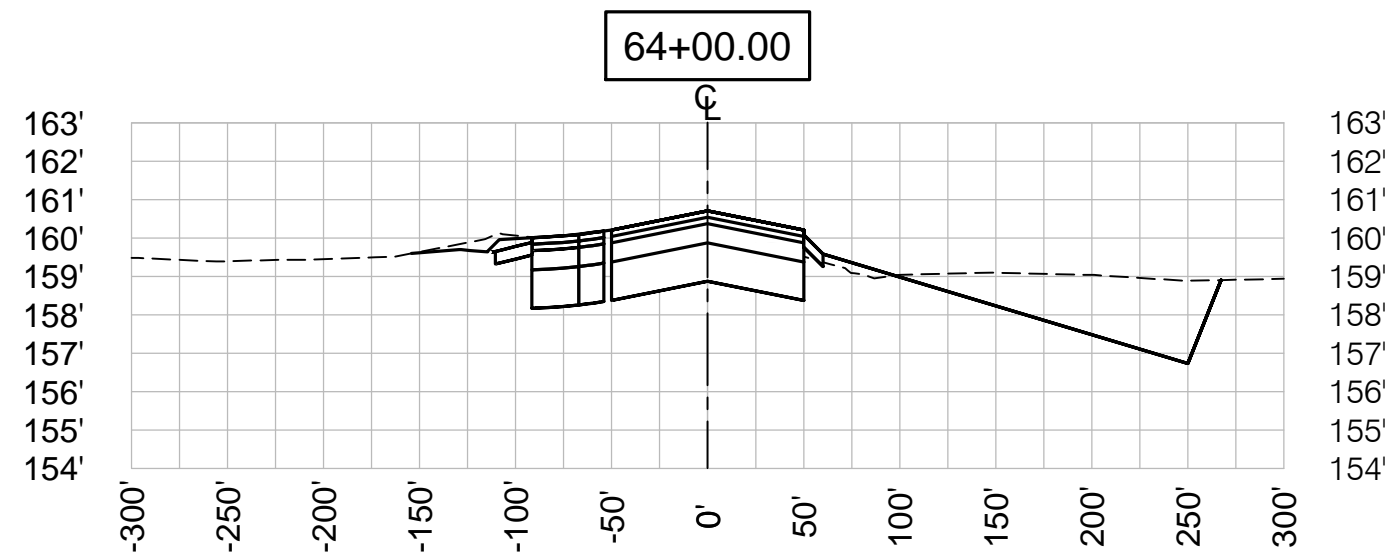
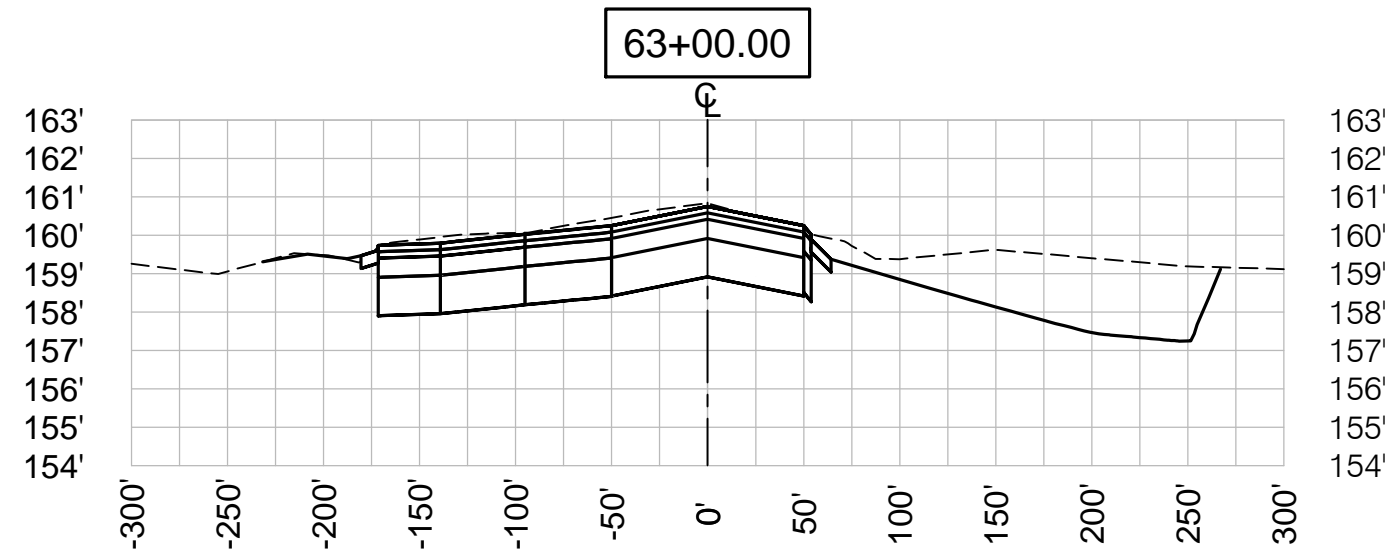
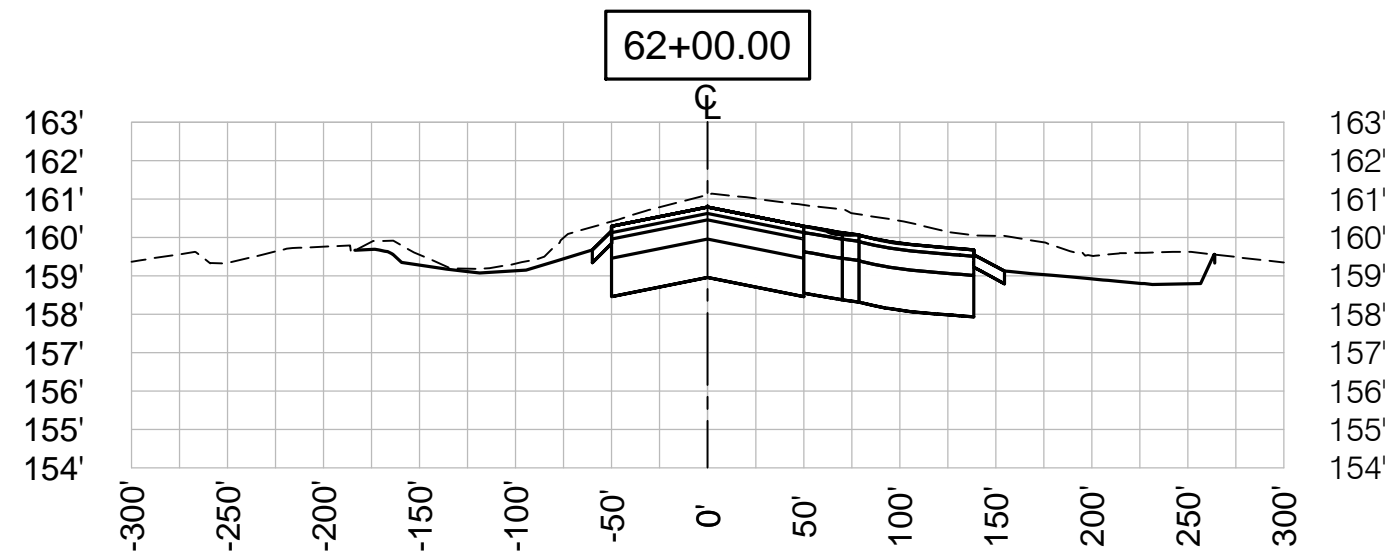
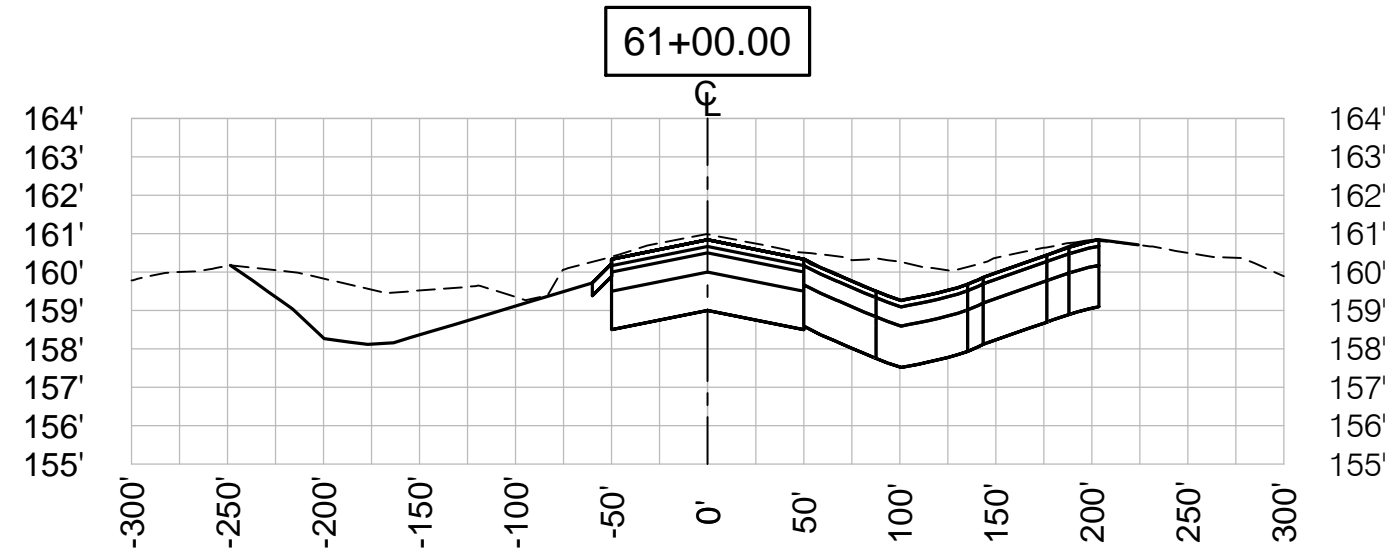
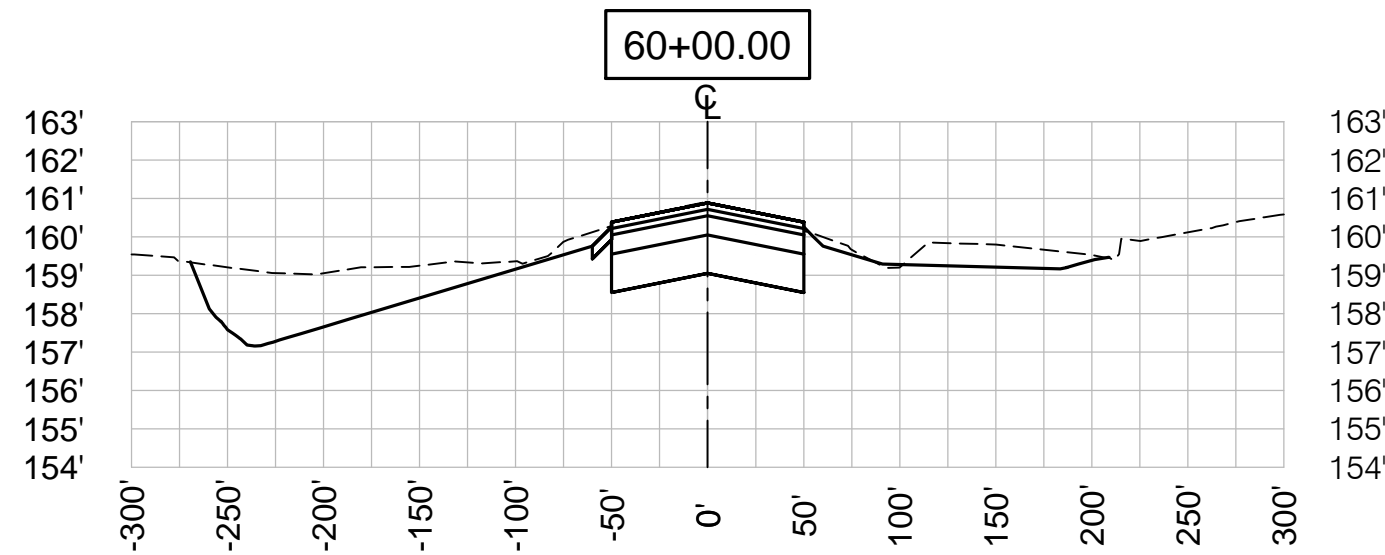
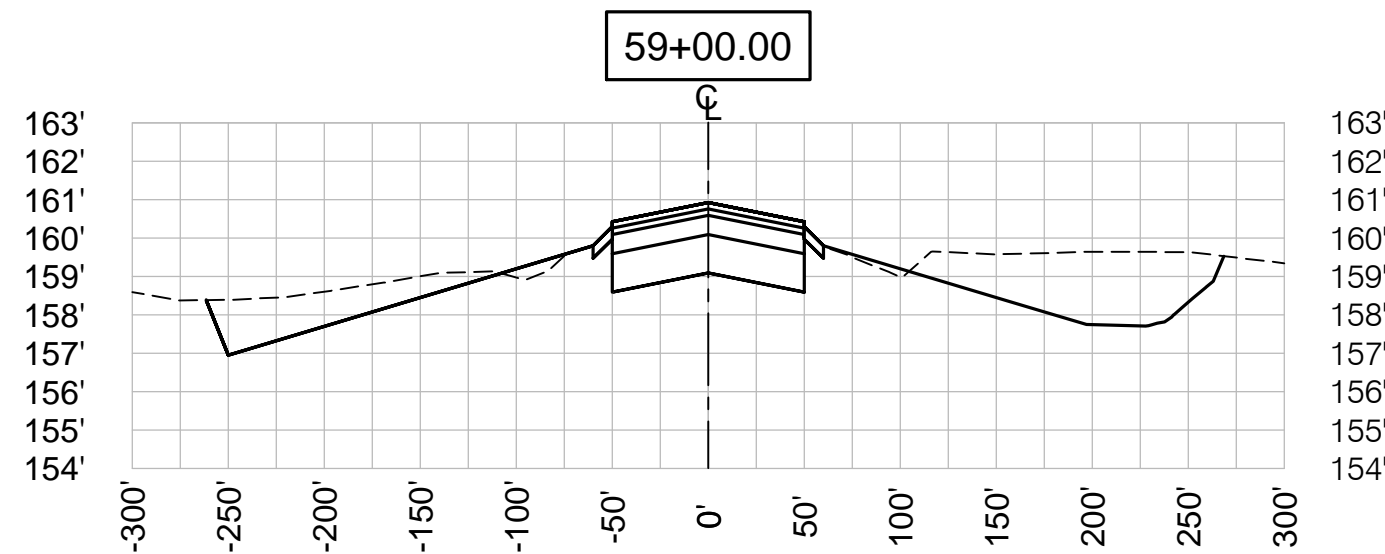
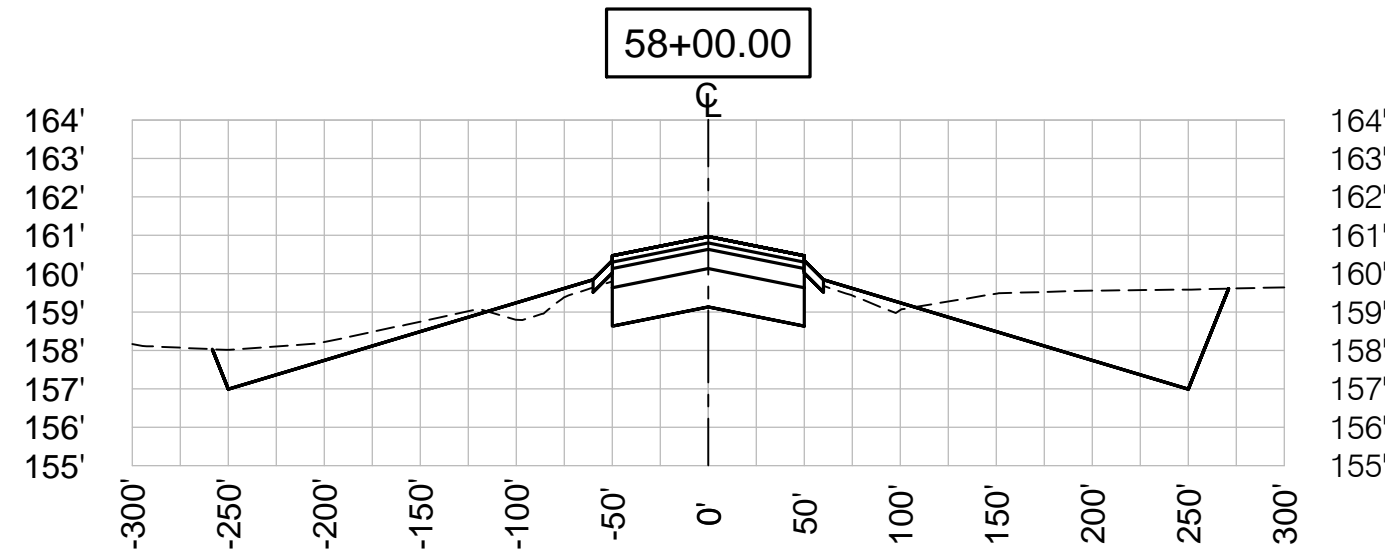
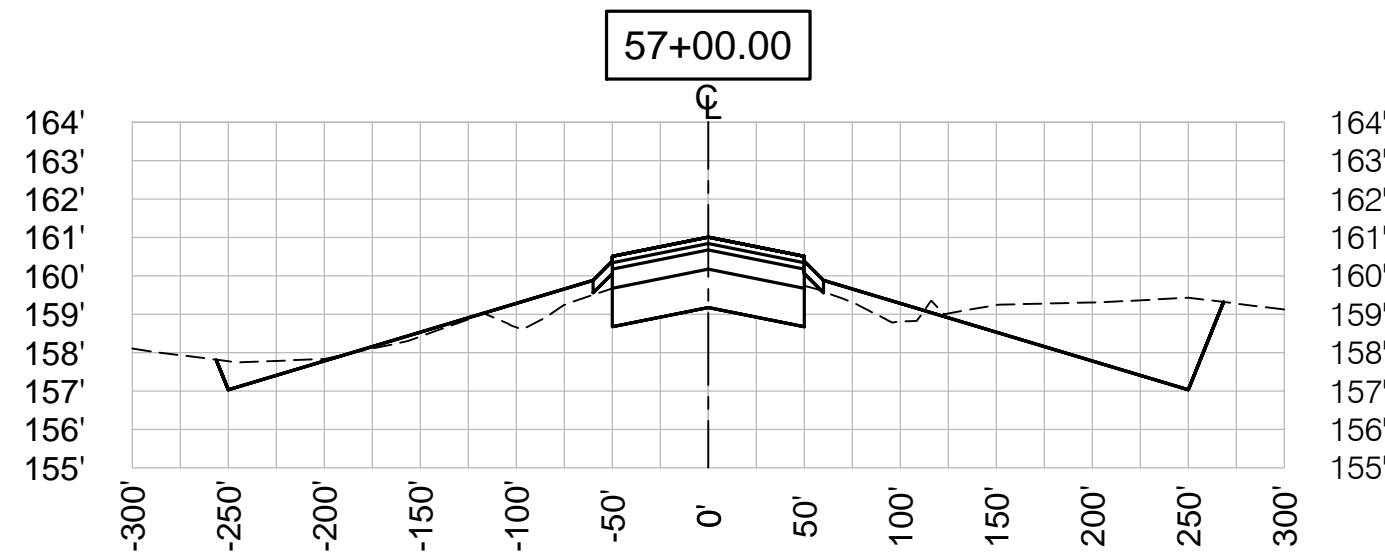
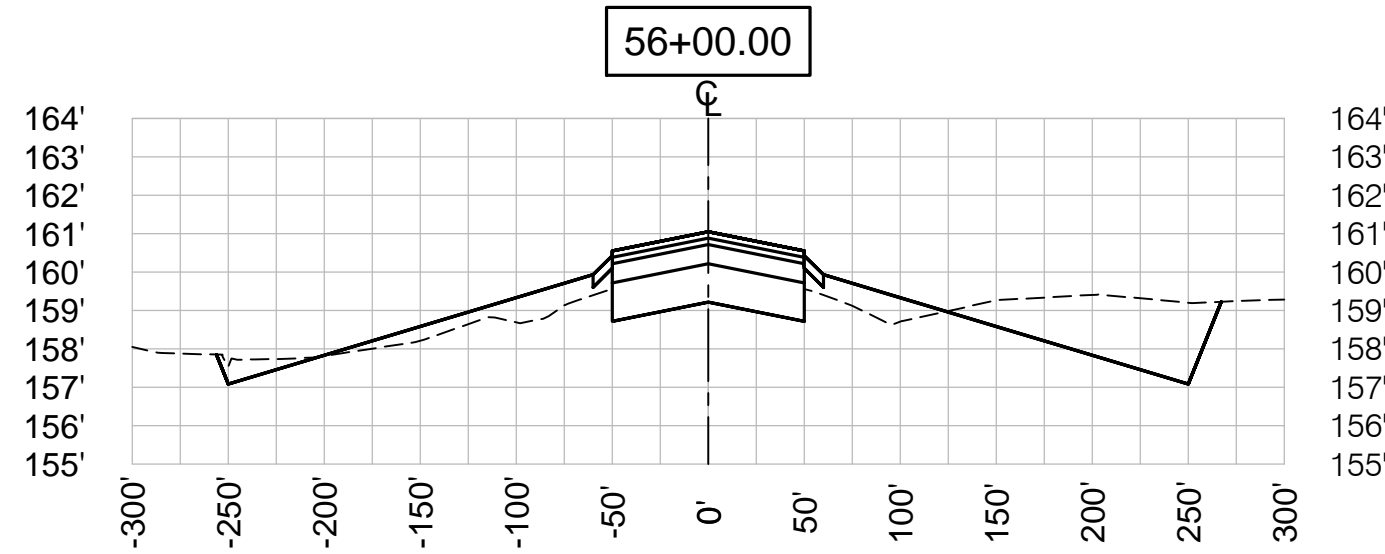
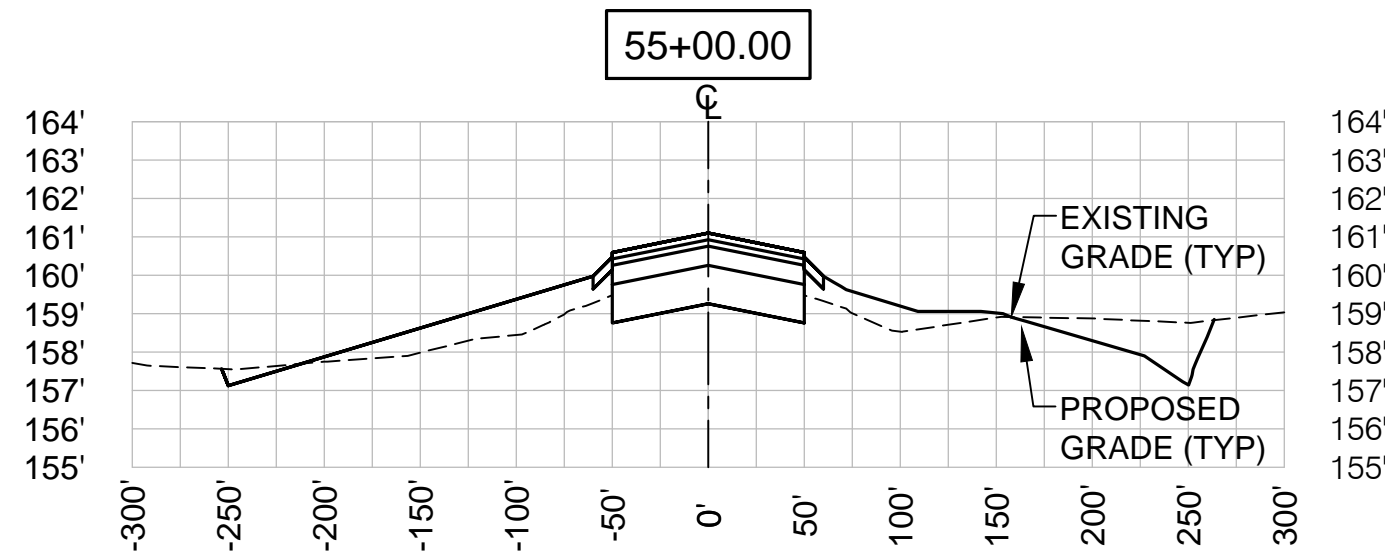
CITY OF MCMINNVILLE
MCMINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

RUNWAY 4-22 CROSS SECTIONS
STA 40+00 TO STA 54+00

DRAWING NO.
C-36

SHEET NO.
46 OF 80

S:\Municipal\Projects\40228 City of McMinnville\008\03\----CADD\---Working Drawings\C-37 CROSS SECTIONS-REV.C.dwg



NOTES:

- SEE SHEET C-31 FOR TYPICAL RUNWAY 4-22 SECTION.
- UNDERDRAINS NOT SHOWN (TYPICAL).

RWY 4-22 CROSS SECTIONS

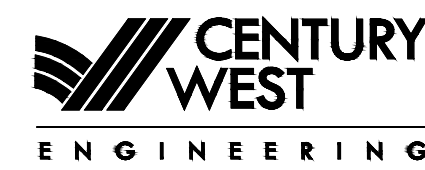
SCALE: 1"=100' HORIZ
1"=5' VERT

1
C-37



VERIFY SCALES
BAR IS ONE INCH ON
ORIGINAL DRAWING.
0" 1"
IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY.

NO.	DATE	BY	APPR	REVISIONS



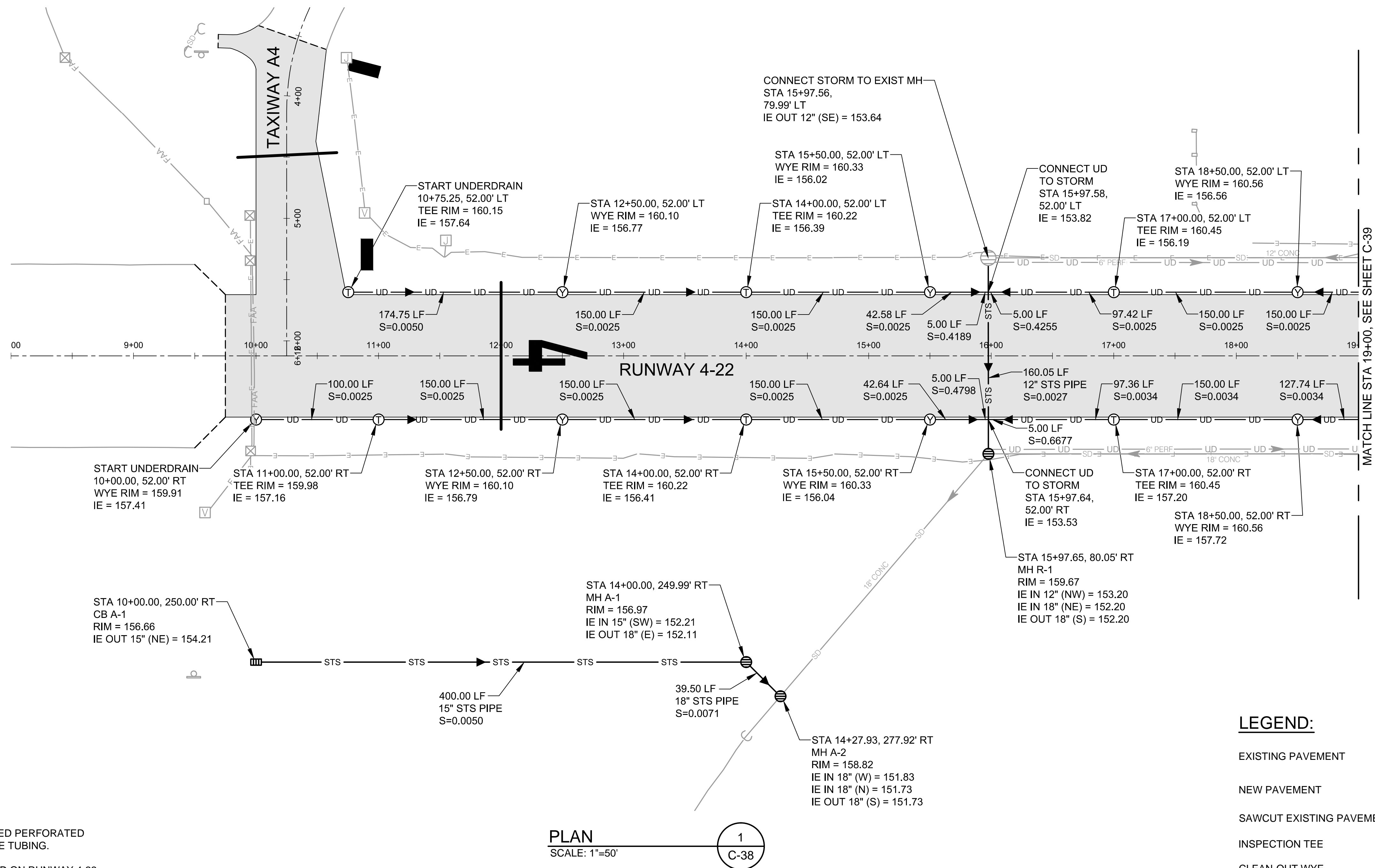
PORTLAND OFFICE
5331 SW MACADAM AVE., #207
PORTLAND, OR 97239
503.419.2130
503.639.2710 FAX

DATE: APRIL 2016

PROJECT NO: 40228.008.03

DESIGNED BY: BFC
DRAWN BY: SLK
CHECKED BY: JNR
SCALE: AS NOTED

CITY OF MCMINNVILLE MCMINNVILLE MUNICIPAL AIRPORT RUNWAY 4-22 REHABILITATION PROJECT		DRAWING NO. C-37
RUNWAY 4-22 CROSS SECTIONS STA 55+00 TO STA 66+00		SHEET NO. 47 OF 80



1. ALL UNDERDRAINS SHALL BE 6" CORRUGATED PERFORATED POLYETHYLENE (PERF. CORR. PE) DRAINAGE TUBING.
2. STORM AND UNDERDRAIN GEOMETRY BASED ON RUNWAY 4-22 CENTERLINE ALIGNMENT UNLESS OTHERWISE NOTED.
3. SEE SHEETS C-44 THROUGH C-46 FOR STORM DRAINAGE DETAILS.
4. STORM DRAINAGE FITTINGS AND CONNECTIONS SHALL BE WATERTIGHT.
5. ALL MANHOLES SHALL BE OPEN GRATED INCLUDING THOSE RECEIVING REPLACEMENTS.
6. ALL MANHOLES SHALL BE 48" DIAMETER UNLESS NOTED OTHERWISE.
7. ALL STORM (STS) PIPE TO BE POLYETHYLENE UNLESS OTHERWISE NOTED AS DUCTILE IRON (DI).

EXISTING PAVEMENT

NEW PAVEMENT

SAWCUT EXISTING PAVEMENT

INSPECTION TEE

CLEAN-OUT WYE

UNDERDRAIN (UD)

STORM DRAIN (SD)

STORM MANHOLE

STORM CATCH BASIN

EXISTING UNDERDRAIN (UD)

EXISTING STORM MANHOLE/CATCH BASIN


EXISTING AREA DRAIN

EXISTING STORM DRAIN (SD)

DUCT BANK CROSSING

EXISTING ELECTRICAL



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0"  1"
IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY.

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PROJECT NO:	40228.008.03
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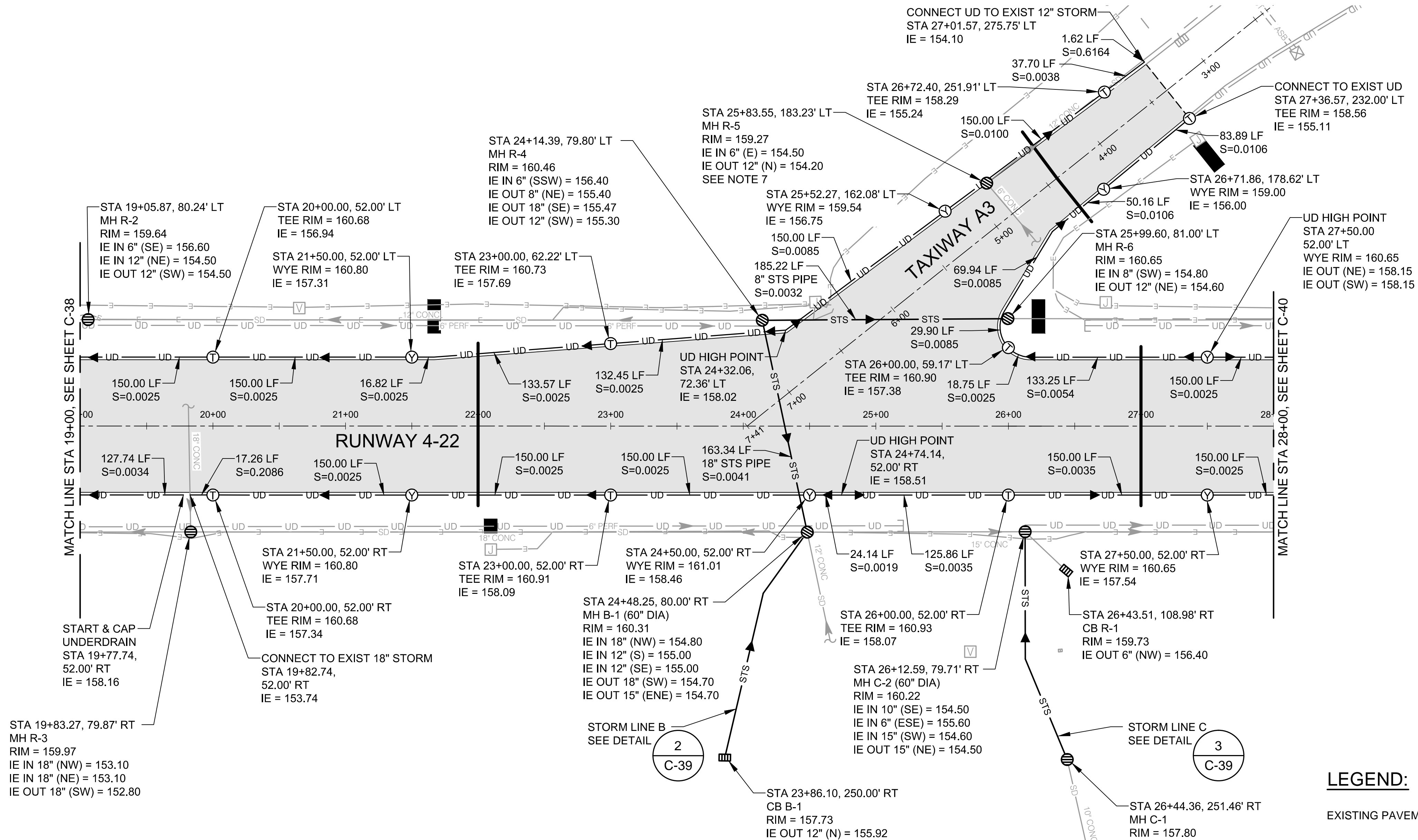
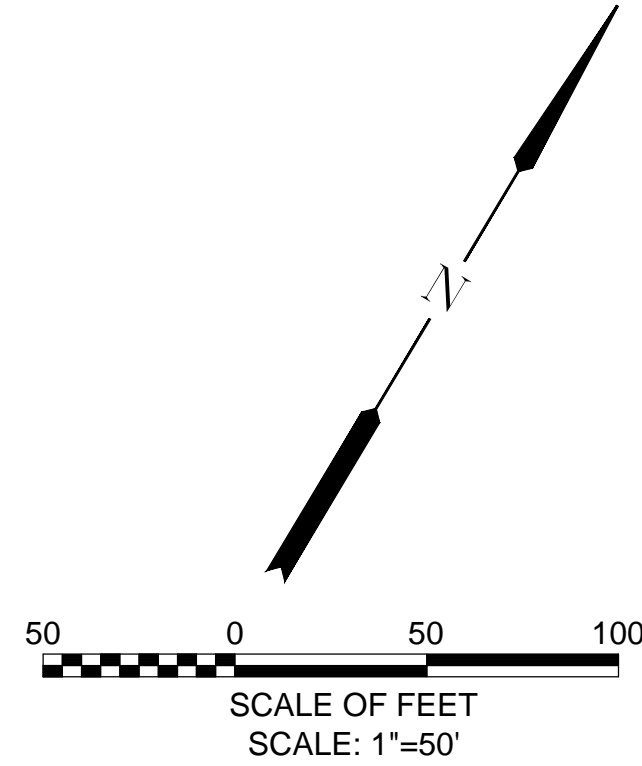
DESIGNED BY:	BFC
DRAWN BY:	SLK
CHECKED BY:	JNR
SCALE:	AS NOTED

CITY OF MCMINNVILLE
MCMINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

STORM DRAINAGE PLAN
STA 8+00 TO STA 19+00

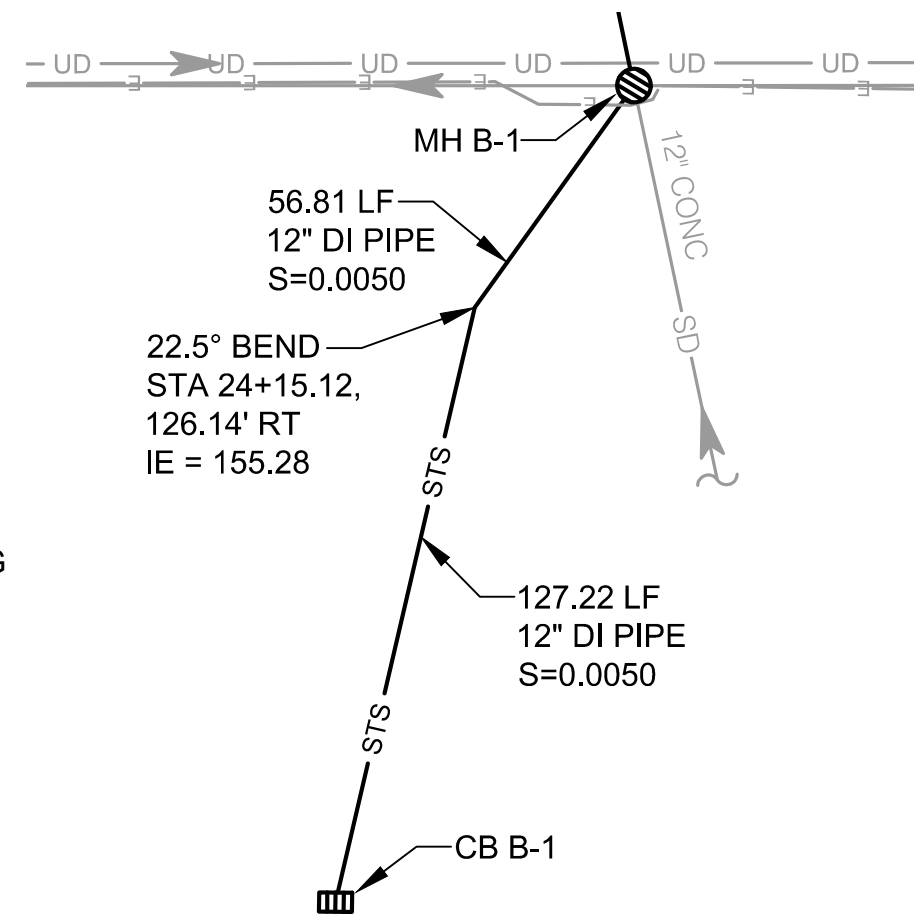
DRAWING NO.
C-38
SHEET NO.
48 OF 80

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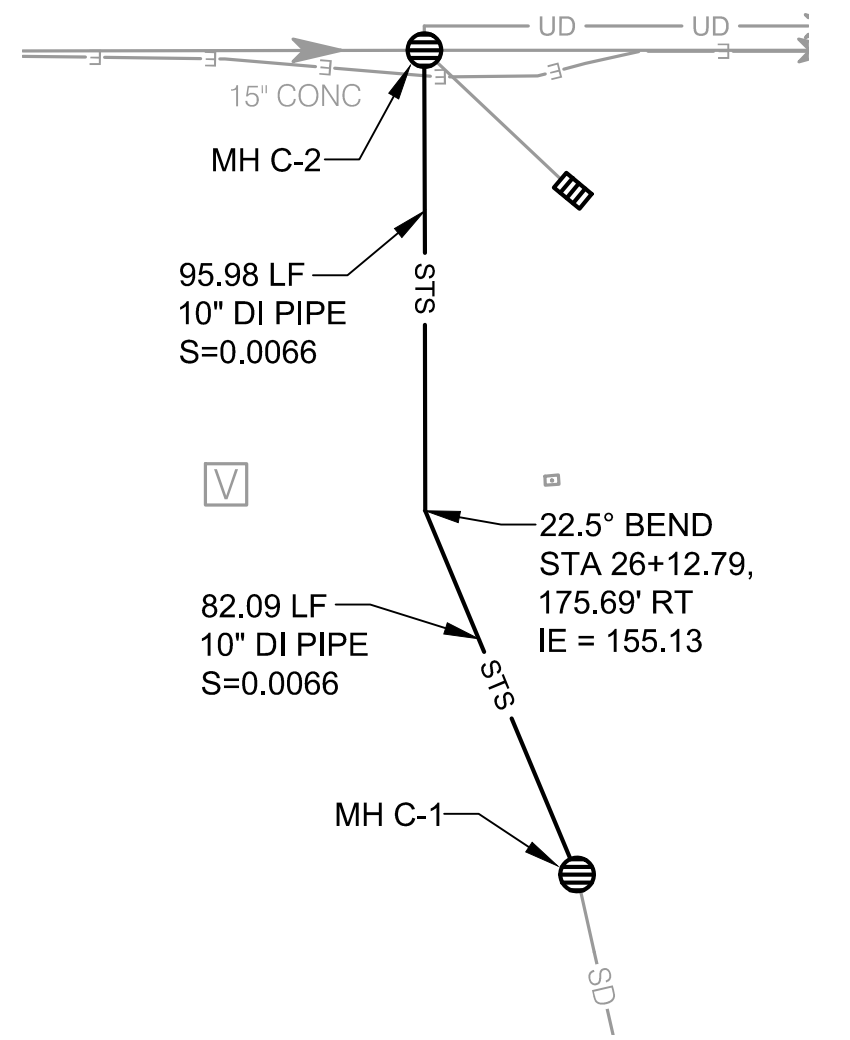
NOTES:

- ALL UNDERDRAINS SHALL BE 6" CORRUGATED PERFORATED POLYETHYLENE (PERF. CORR. PE) DRAINAGE TUBING.
- STORM AND UNDERDRAIN GEOMETRY BASED ON RUNWAY 4-22 CENTERLINE ALIGNMENT UNLESS OTHERWISE NOTED.
- SEE SHEETS C-44 THROUGH C-46 FOR STORM DRAINAGE DETAILS.
- STORM DRAINAGE FITTINGS AND CONNECTIONS SHALL BE WATERTIGHT.
- ALL MANHOLES SHALL BE OPEN GRATED INCLUDING THOSE RECEIVING REPLACEMENTS.
- ALL MANHOLES SHALL BE 48" DIAMETER UNLESS NOTED OTHERWISE.
- NEW UNDERDRAIN DOES NOT CONNECT TO MH R-5. DEFLECT UNDERDRAIN PIPE AS NEEDED TO AVOID CONFLICT AND MAINTAIN POSITIVE DRAINAGE.
- ALL STORM (STS) PIPE TO BE POLYETHYLENE UNLESS OTHERWISE NOTED AS DUCTILE IRON (DI).



STORM LINE B DETAIL
SCALE: 1"=40'

PLAN
SCALE: 1"=50'



STORM LINE C DETAIL
SCALE: 1"=40'

LEGEND:

EXISTING PAVEMENT	
NEW PAVEMENT	
SAWCUT EXISTING PAVEMENT	
INSPECTION TEE	
CLEAN-OUT WYE	
UNDERDRAIN (UD)	
STORM DRAIN (SD)	
STORM MANHOLE	
STORM CATCH BASIN	
EXISTING UNDERDRAIN (UD)	
EXISTING STORM MANHOLE/CATCH BASIN	
EXISTING AREA DRAIN	
EXISTING STORM DRAIN (SD)	
DUCT BANK CROSSING	
EXISTING ELECTRICAL	



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	DATE: APRIL 2016 PROJECT NO: 40228.008.03

DESIGNED BY: BFC
DRAWN BY: SLK
CHECKED BY: JNR
SCALE: AS NOTED

CITY OF MCMINNVILLE MCMINNVILLE MUNICIPAL AIRPORT RUNWAY 4-22 REHABILITATION PROJECT
STORM DRAINAGE PLAN STA 19+00 TO STA 28+00

DRAWING NO. C-39
SHEET NO. 49 OF 80



1. ALL UNDERDRAINS SHALL BE 6" CORRUGATED PERFORATED POLYETHYLENE (PERF. CORR. PE) DRAINAGE TUBING.
2. STORM AND UNDERDRAIN GEOMETRY BASED ON RUNWAY 4-22 CENTERLINE ALIGNMENT UNLESS OTHERWISE NOTED.
3. SEE SHEETS C-44 THROUGH C-46 FOR STORM DRAINAGE DETAILS.
4. STORM DRAINAGE FITTINGS AND CONNECTIONS SHALL BE WATERTIGHT.
5. ALL MANHOLES SHALL BE OPEN GRATED INCLUDING THOSE RECEIVING REPLACEMENTS.
6. ALL MANHOLES SHALL BE 48" DIAMETER UNLESS NOTED OTHERWISE.
7. CONFIRM INVERT ELEVATIONS AND SIZES OF EXISTING STORM DRAIN PIPES CONNECTED TO EXISTING AREA DRAIN.
8. ALL STORM (STS) PIPE TO BE POLYETHYLENE UNLESS OTHERWISE NOTED AS DUCTILE IRON (DI).


SCALE: 1"=50'



C-4

EXISTING ELECTRICAL



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SCALE:

CITY OF MCMINNVILLE
MCMINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

STORM DRAINAGE PLAN
STA 28+00 TO STA 40+50

C-40

SHEET NO.

50 OF 80

S:\Municipal\Projects\40228 City of McMinnville\008\03\----CADD\----Working Drawings\C-41 RW 4-22 STORM DRAINAGE PLAN-4.dwg

NOTES:

1. ALL UNDERDRAINS SHALL BE 6" CORRUGATED PERFORATED POLYETHYLENE (PERF. CORR. PE) DRAINAGE TUBING.
2. STORM AND UNDERDRAIN GEOMETRY BASED ON RUNWAY 4-22 CENTERLINE ALIGNMENT UNLESS OTHERWISE NOTED.
3. SEE SHEETS C-44 THROUGH C-46 FOR STORM DRAINAGE DETAILS.
4. STORM DRAINAGE FITTINGS AND CONNECTIONS SHALL BE WATERTIGHT.
5. ALL MANHOLES SHALL BE OPEN GRATED INCLUDING THOSE RECEIVING REPLACEMENTS.
6. ALL MANHOLES SHALL BE 48" DIAMETER UNLESS NOTED OTHERWISE.
7. ALL STORM (STS) PIPE TO BE POLYETHYLENE UNLESS OTHERWISE NOTED AS DUCTILE IRON (DI).

PLAN
SCALE: 1"=50'

1

C-41

LEGEND:

EXISTING PAVEMENT	
NEW PAVEMENT	
SAWCUT EXISTING PAVEMENT	
INSPECTION TEE	
CLEAN-OUT WYE	
UNDERDRAIN (UD)	
STORM DRAIN (SD)	
STORM MANHOLE	
STORM CATCH BASIN	
EXISTING UNDERDRAIN (UD)	
EXISTING STORM MANHOLE/CATCH BASIN	
EXISTING AREA DRAIN	
EXISTING STORM DRAIN (SD)	
DUCT BANK CROSSING	
EXISTING ELECTRICAL	



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DATE:
APRIL 2016

PROJECT NO:
40228.008.03

DESIGNED BY: BFC	SCALE: AS NOTED
DRAWN BY: SLK	
CHECKED BY: JNR	

CITY OF MCMINNVILLE
MCMINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

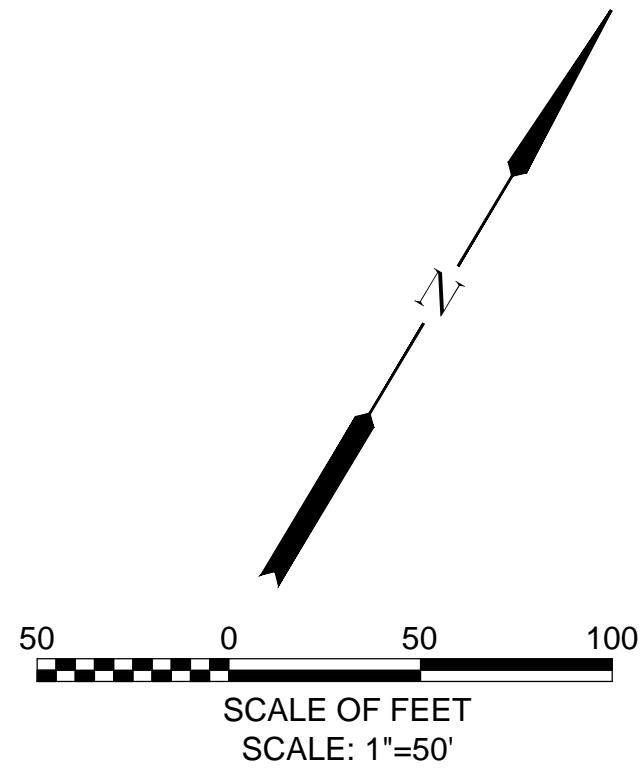
STORM DRAINAGE PLAN
STA 40+50 TO STA 54+00

DRAWING NO.

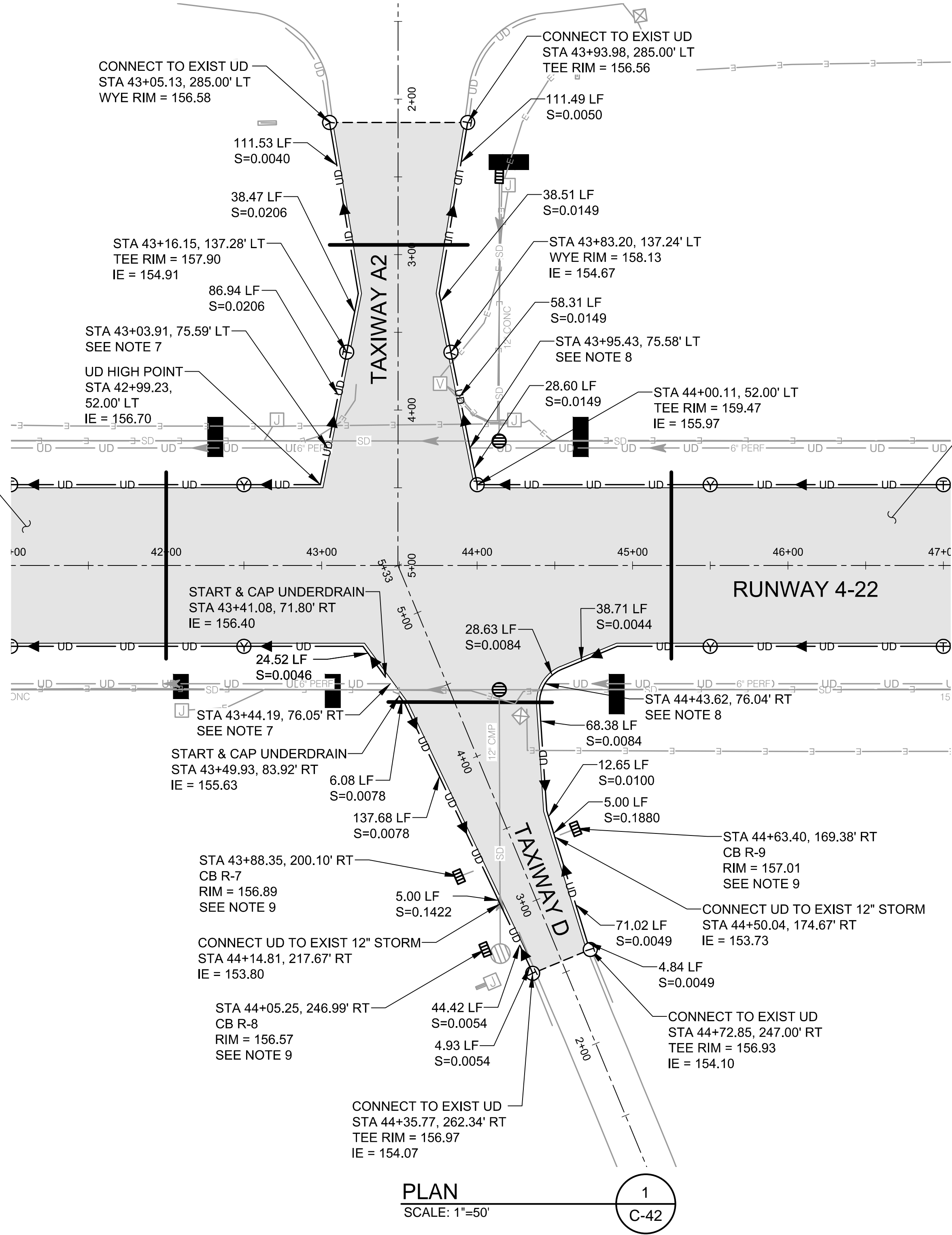
C-41

SHEET NO.

51 OF 80



SEE SHEET C-41 FOR RUNWAY 4-22
STORM DRAINAGE PLAN



SEE SHEET C-41 FOR RUNWAY 4-22
STORM DRAINAGE PLAN

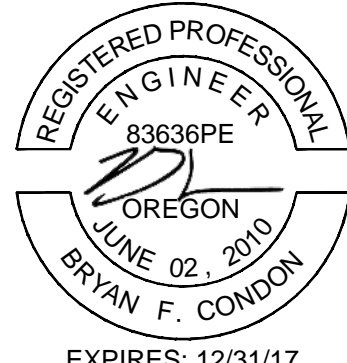
NOTES:

1. ALL UNDERDRAINS SHALL BE 6" CORRUGATED PERFORATED POLYETHYLENE (PERF. CORR. PE) DRAINAGE TUBING.
2. STORM AND UNDERDRAIN GEOMETRY BASED ON RUNWAY 4-22 CENTERLINE ALIGNMENT UNLESS OTHERWISE NOTED.
3. SEE SHEETS C-44 THROUGH C-46 FOR STORM DRAINAGE DETAILS.
4. STORM DRAINAGE FITTINGS AND CONNECTIONS SHALL BE WATERTIGHT.
5. ALL MANHOLES SHALL BE OPEN GRATED INCLUDING THOSE RECEIVING REPLACEMENTS.
6. ALL MANHOLES SHALL BE 48" DIAMETER UNLESS NOTED OTHERWISE.
7. PLACE CAP AT START OF EXISTING 6" UNDERDRAIN.
8. CONNECT EXISTING 6" UNDERDRAIN TO NEW UNDERDRAIN TO PROVIDE POSITIVE DRAINAGE AFTER DEMOLITION.
9. EXISTING STORM DRAIN EXITING EXISTING CATCH BASIN TO REMAIN. MATCH EXISTING INVERT ELEVATION.
10. ALL STORM (STS) PIPE TO BE POLYETHYLENE UNLESS OTHERWISE NOTED AS DUCTILE IRON (DI).

LEGEND:

EXISTING PAVEMENT	
NEW PAVEMENT	
SAWCUT EXISTING PAVEMENT	
INSPECTION TEE	
CLEAN-OUT WYE	
UNDERDRAIN (UD)	
STORM DRAIN (SD)	
STORM MANHOLE	
STORM CATCH BASIN	
EXISTING UNDERDRAIN (UD)	
EXISTING STORM MANHOLE/CATCH BASIN	
EXISTING AREA DRAIN	
EXISTING STORM DRAIN (SD)	
DUCT BANK CROSSING	
EXISTING ELECTRICAL	

S:\Municipal\Projects\40228 City of McMinnville\008\03\....CADD\....Working Drawings\C-42 RW 4-22 STORM DRAINAGE PLAN-5-REVA.dwg



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0" 1"
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PROJECT NO: 40228.008.03

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DRAWN BY: SLK	
CHECKED BY: JNR	

CITY OF MCMINNVILLE
MCMINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

STORM DRAINAGE PLAN
TAXIWAY A2 AND TAXIWAY D

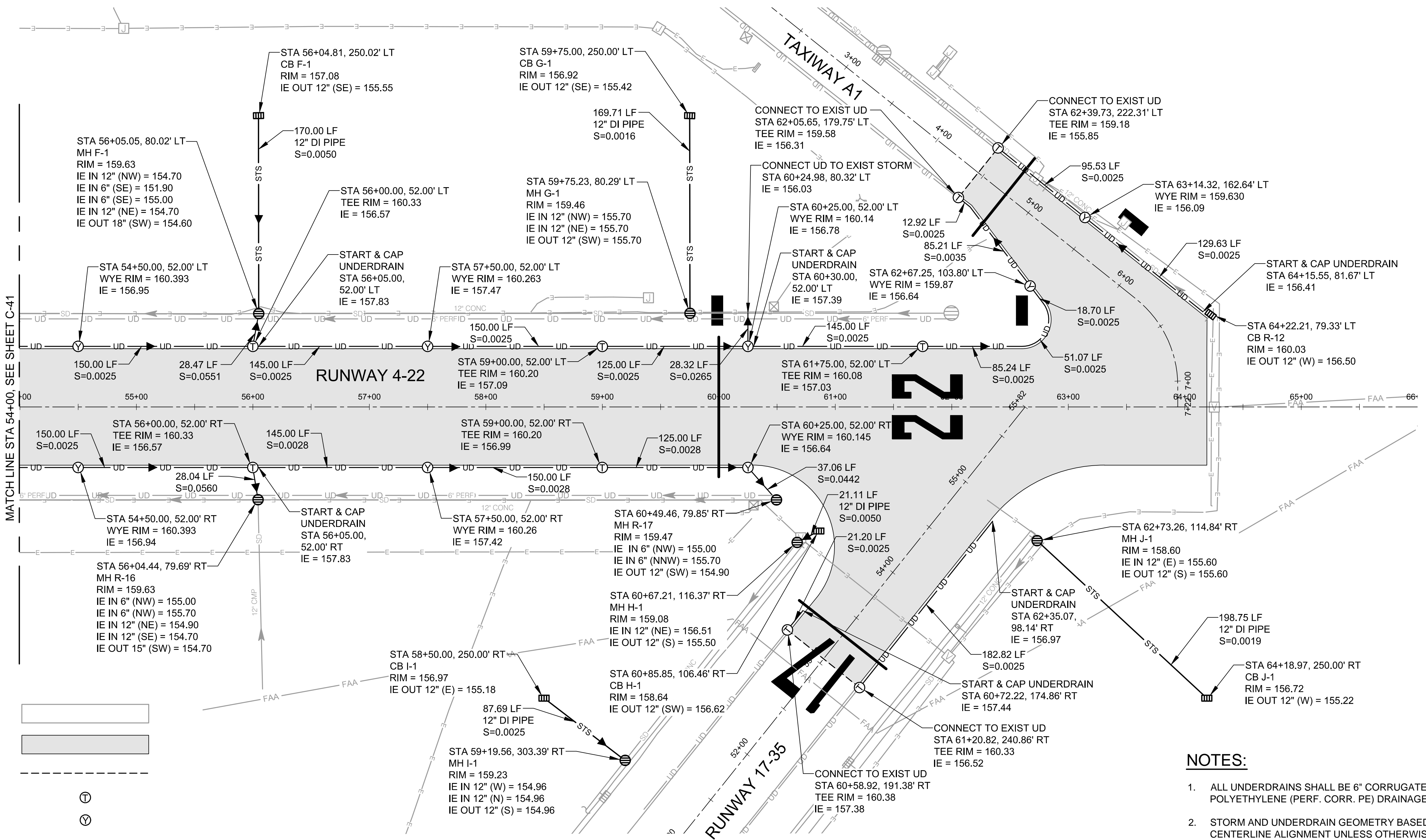
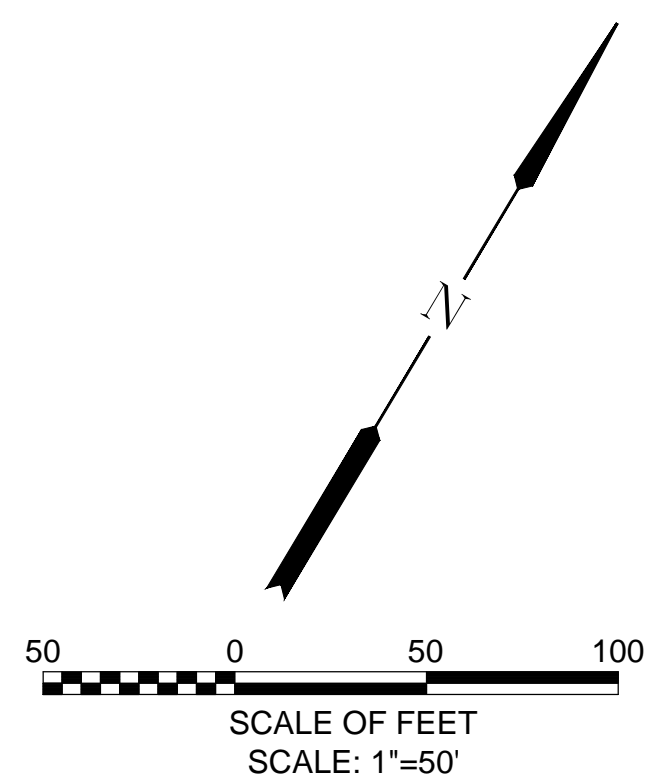
DRAWING NO.

C-42

SHEET NO.

52 OF 80

S:\Municipal\Projects\40228 City of McMinnville\008\03\...CADD\...Working Drawings\C-43 RW 4-22 STORM DRAINAGE PLAN-6.cwg



LEGEND:

EXISTING PAVEMENT	
NEW PAVEMENT	
SAWCUT EXISTING PAVEMENT	
INSPECTION TEE	
CLEAN-OUT WYE	
UNDERDRAIN (UD)	
STORM DRAIN (SD)	
STORM MANHOLE	
STORM CATCH BASIN	
EXISTING UNDERDRAIN (UD)	
EXISTING STORM MANHOLE/CATCH BASIN	
EXISTING AREA DRAIN	
EXISTING STORM DRAIN (SD)	
DUCT BANK CROSSING	
EXISTING ELECTRICAL	

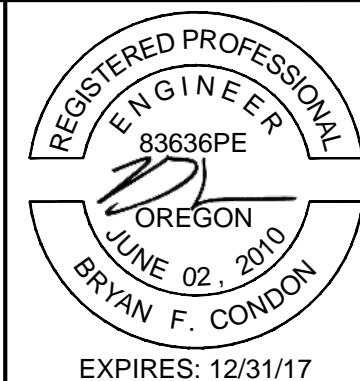
NOTES:

1. ALL UNDERDRAINS SHALL BE 6" CORRUGATED PERFORATED POLYETHYLENE (PERF. CORR. PE) DRAINAGE TUBING.
2. STORM AND UNDERDRAIN GEOMETRY BASED ON RUNWAY 4-22 CENTERLINE ALIGNMENT UNLESS OTHERWISE NOTED.
3. SEE SHEETS C-44 THROUGH C-46 FOR STORM DRAINAGE DETAILS.
4. STORM DRAINAGE FITTINGS AND CONNECTIONS SHALL BE WATERTIGHT.
5. SEE ELECTRICAL PLANS TO COORDINATE CONDUIT CROSSINGS AT UNDERDRAIN LOCATIONS.
6. ALL MANHOLES SHALL BE OPEN GRATED INCLUDING THOSE RECEIVING REPLACEMENTS.
7. ALL MANHOLES SHALL BE 48" DIAMETER UNLESS NOTED OTHERWISE.
8. ALL STORM (STS) PIPE TO BE POLYETHYLENE UNLESS OTHERWISE NOTED AS DUCTILE IRON (DI).

PLAN
SCALE: 1"=50'

1

C-43



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DATE: APRIL 2016
PROJECT NO: 40228.008.03

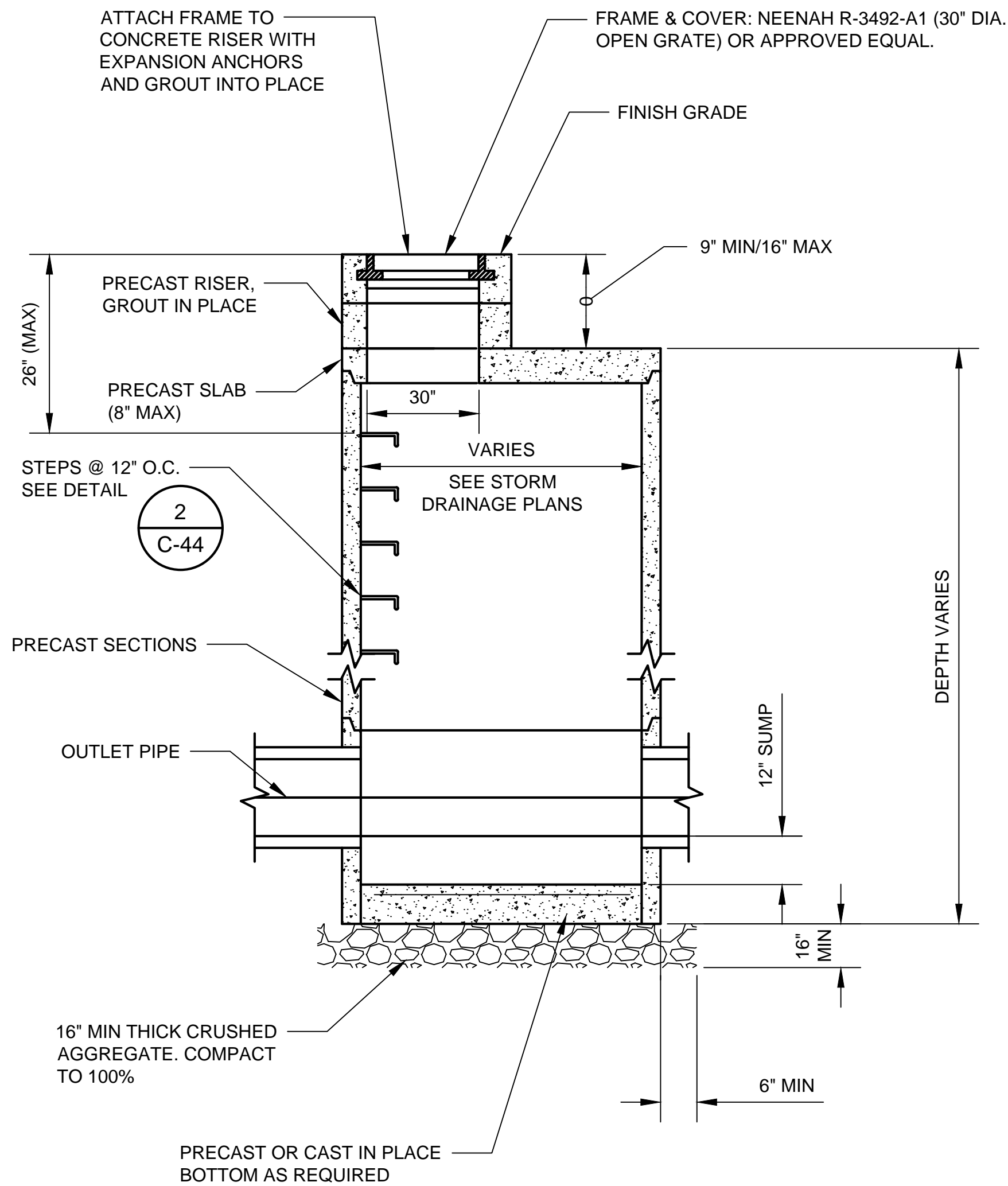
DESIGNED BY: BFC
DRAWN BY: SLK
CHECKED BY: JNR
SCALE: AS NOTED

CITY OF MCMINNVILLE
MCMINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

STORM DRAINAGE PLAN
STA 54+00 TO STA 66+00

DRAWING NO. C-43
SHEET NO. 53 OF 80

S:\Municipal\Projects\40228 City of McMinnville\008\03\----CADD\----Working Drawings\C-44 STORM DRAIN MANHOLE DETAILS.dwg



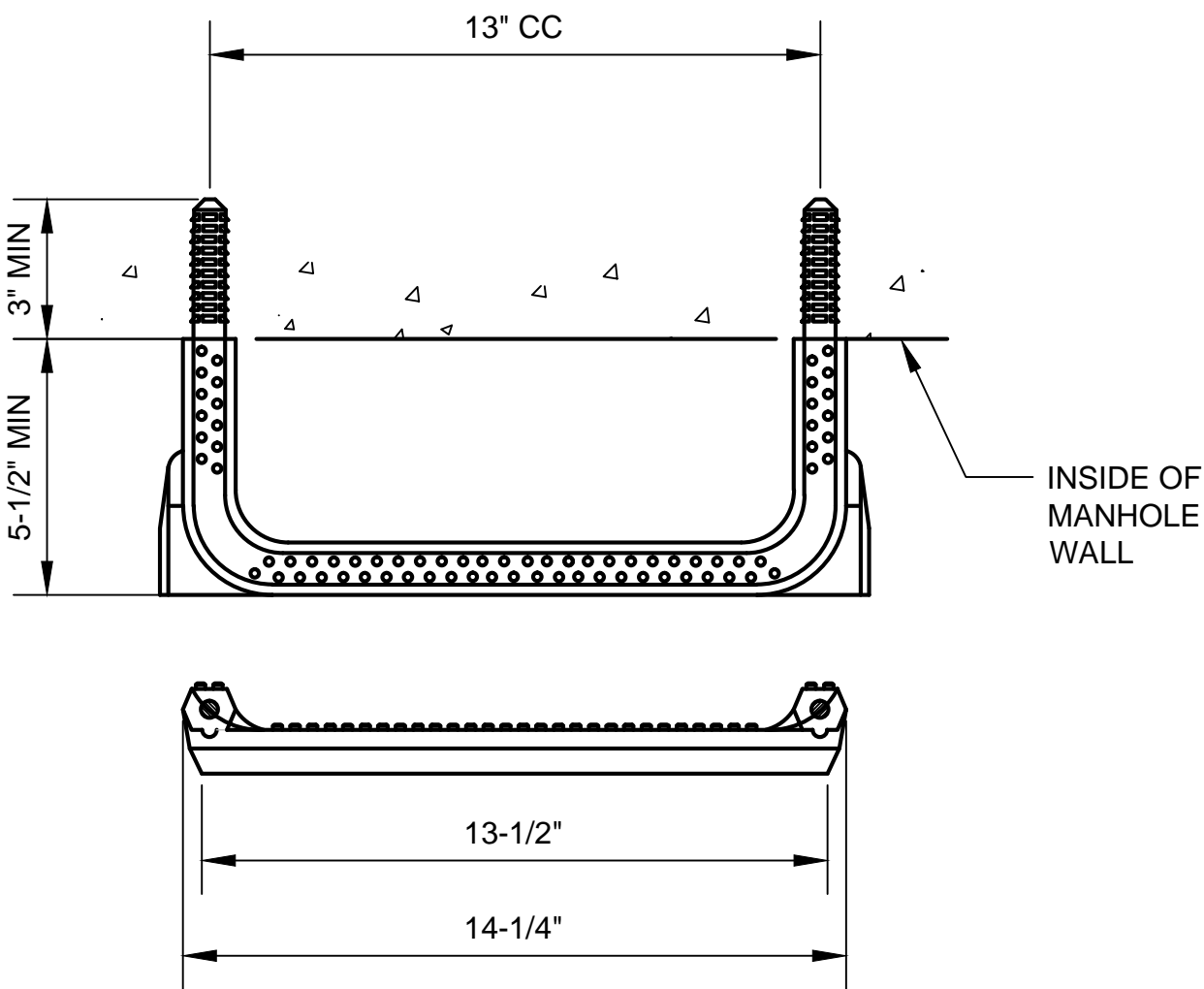
NOTES:

- MANHOLES SHALL BE PRECAST AND DESIGNED FOR LOADING OF 100,000 LBS. (100 KIPS) WITH 250 PSI TIRE PRESSURE. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND STRUCTURAL CALCULATIONS STAMPED BY A LICENSED ENGINEER IN THE STATE OF OREGON FOR APPROVAL.
- MANHOLE FRAME & COVER SHALL BE DUCTILE IRON & DESIGNED TO MEET 100,000 LB. WHEEL LOADS WITH 250 PSI TIRE PRESSURE. COVER SHALL BE BOLTED TO FRAME.
- PROVIDE FLEX JOINT WITHIN 18" OF MANHOLE, KOR-N-SEAL OR EQUAL IS ACCEPTABLE.
- MANHOLE LIDS SHALL BE OPEN GRATE UNLESS OTHERWISE NOTED ON PLANS.

FLAT TOP MANHOLE

N.T.S.

1
C-44



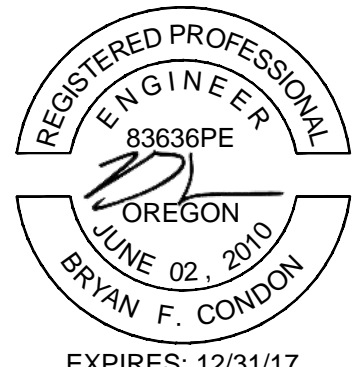
MANHOLE STEPS

N.T.S.

2
C-44


NOTES:

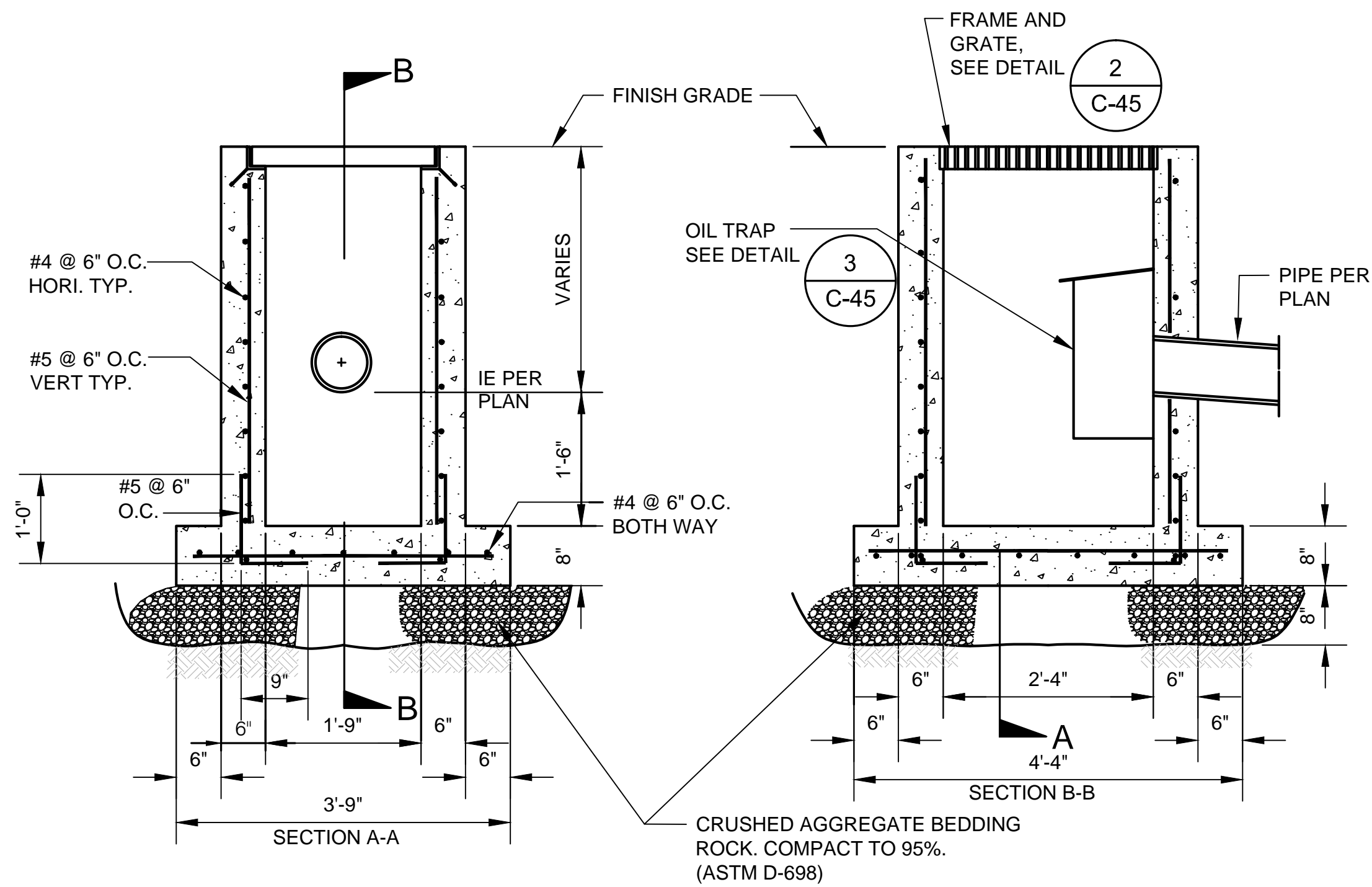
- STEPS SHALL BE DEFORMED STEEL REINFORCED POLYPROPYLENE PLASTIC. ONLY STEPS THAT HAVE BEEN APPROVED BY THE ENGINEER SHALL BE USED IN MANHOLES.
- ALL STEPS WITHIN A MANHOLE SHALL BE OF THE SAME DESIGN, TYPE, AND SIZE. (MIXING OF UNMATCHED STEPS WITHIN THE SAME MANHOLE IS NOT PERMITTED.)
- LOOSE STEPS SHALL BE CAUSE FOR REJECTION OF THAT MANHOLE CONE OR SECTION.
- STEPS SHALL BE ALIGNED VERTICALLY.
- STEPS SHALL BE SPACED 12" O.C.
- MAXIMUM DISTANCE FROM TOP OF MANHOLE FRAME TO FIRST STEP SHALL BE 26".



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NO.	DATE	BY	APPR	REVISIONS

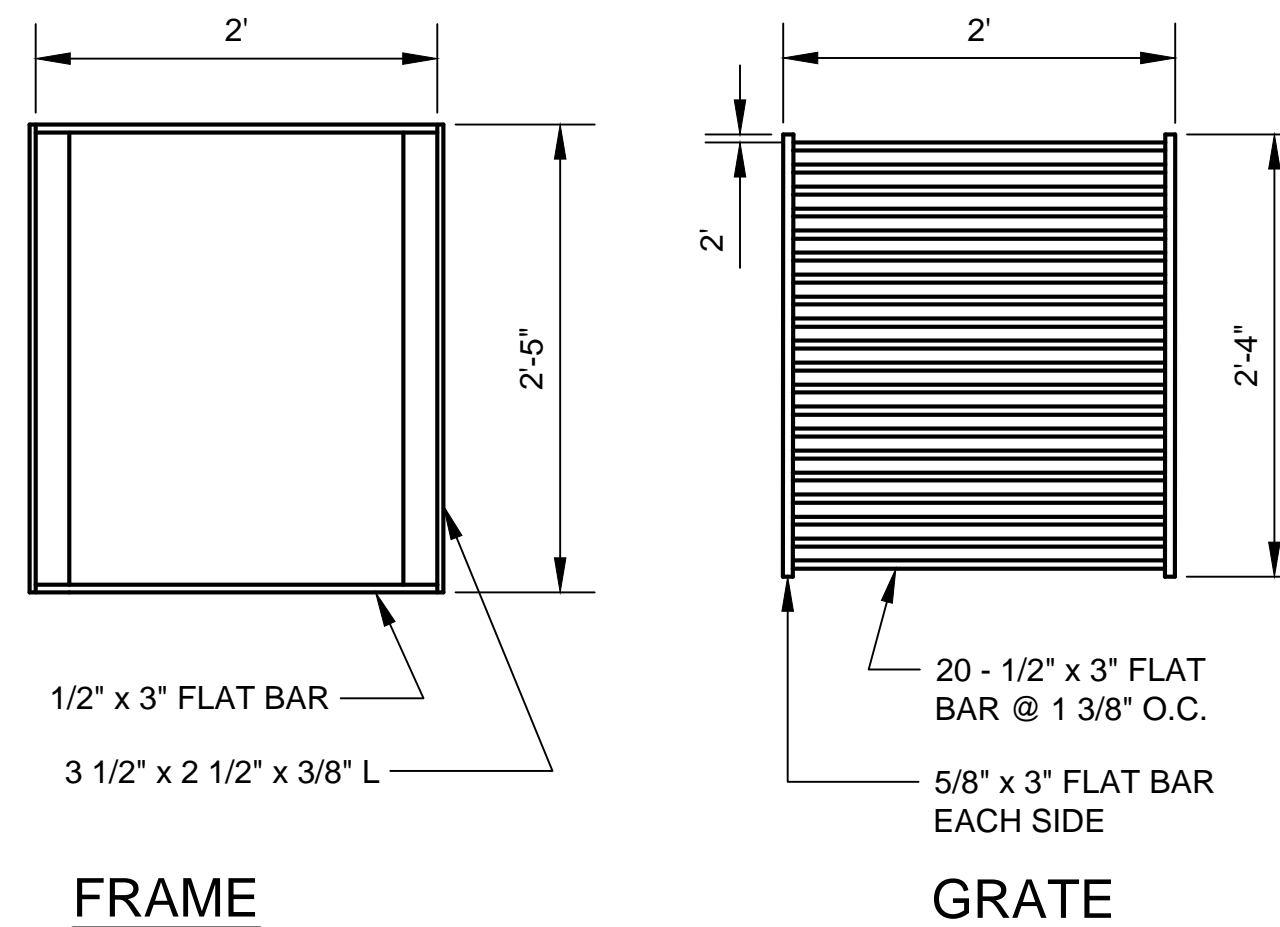
<div></div> <div>PORTLAND OFFICE 5331 SW MACADAM AVE., #207 PORTLAND, OR 97239 503.419.2130 503.639.2710 FAX</div>		DESIGNED BY: BFC	CITY OF MCMINNVILLE MCMINNVILLE MUNICIPAL AIRPORT RUNWAY 4-22 REHABILITATION PROJECT	DRAWING NO. C-44
		DRAWN BY: JLS		
		CHECKED BY: JNR		
		DATE: APRIL 2016	PROJECT NO: 40228.008.03	SCALE: AS NOTED



CONCRETE CATCH BASIN

N.T.S.

1
C-45



FRAME

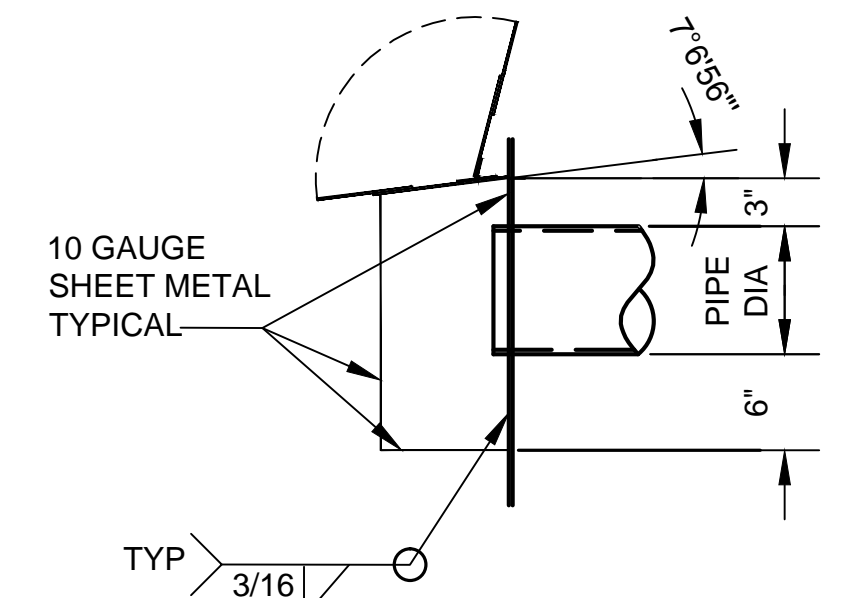
NOTE:

- HOT DIP GALV. FRAME & GRATE AFTER FABRICATION.

FRAME AND GATE DETAILS

N.T.S.

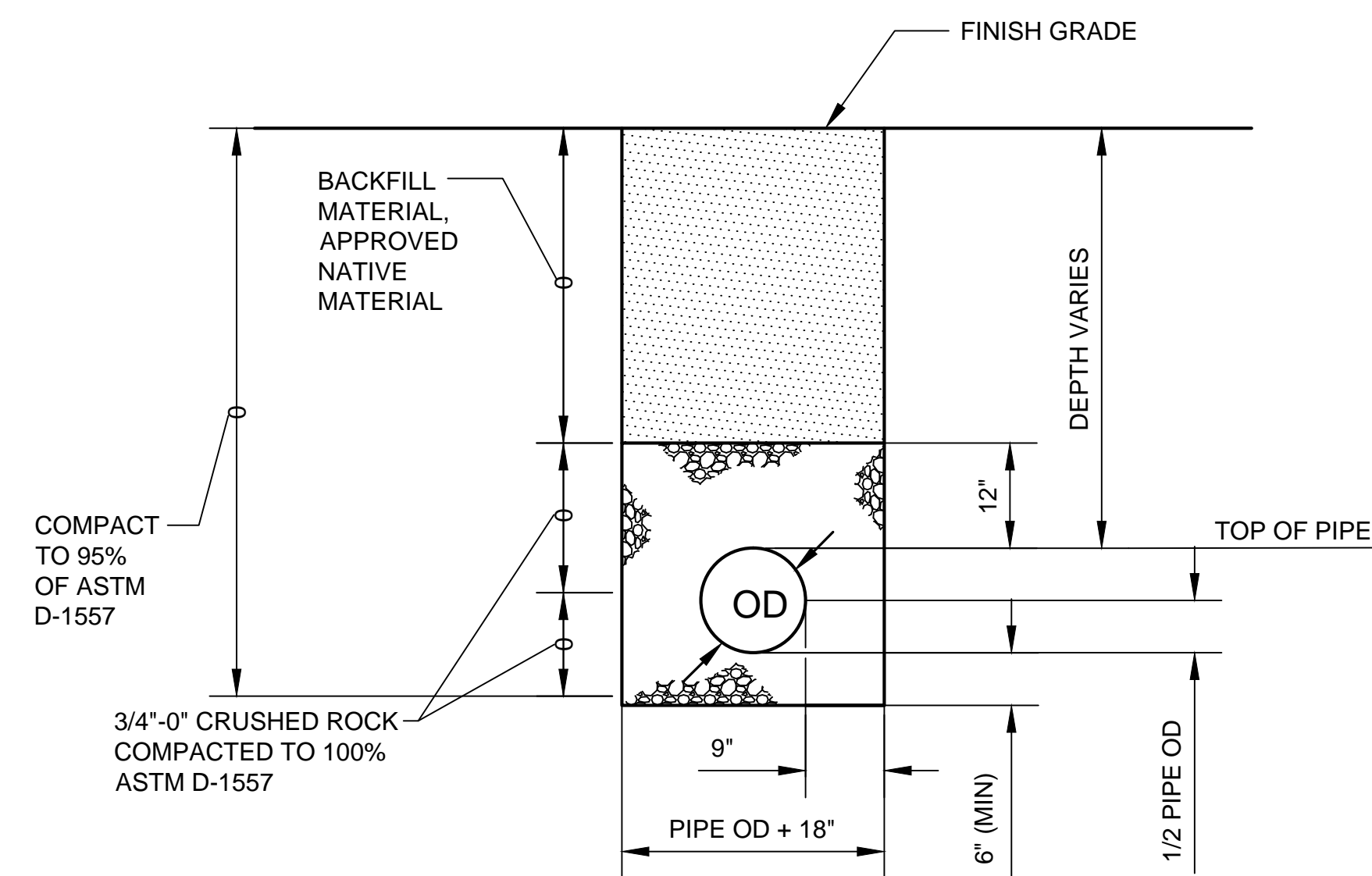
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C-45



OIL TRAP DETAIL

N.T.S.

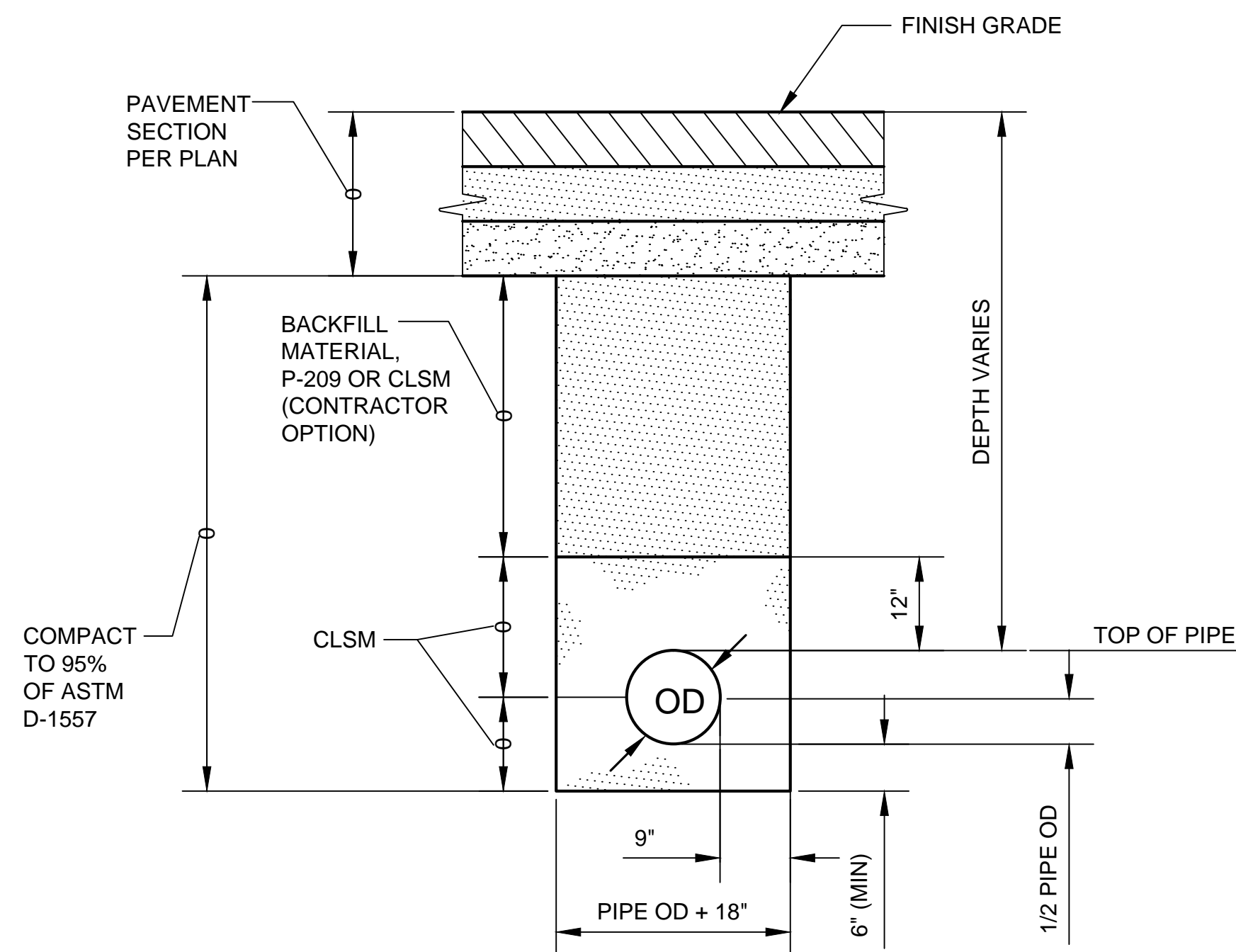
3
C-45



STORM DRAIN TRENCH DETAIL
UNPAVED AREAS

N.T.S.

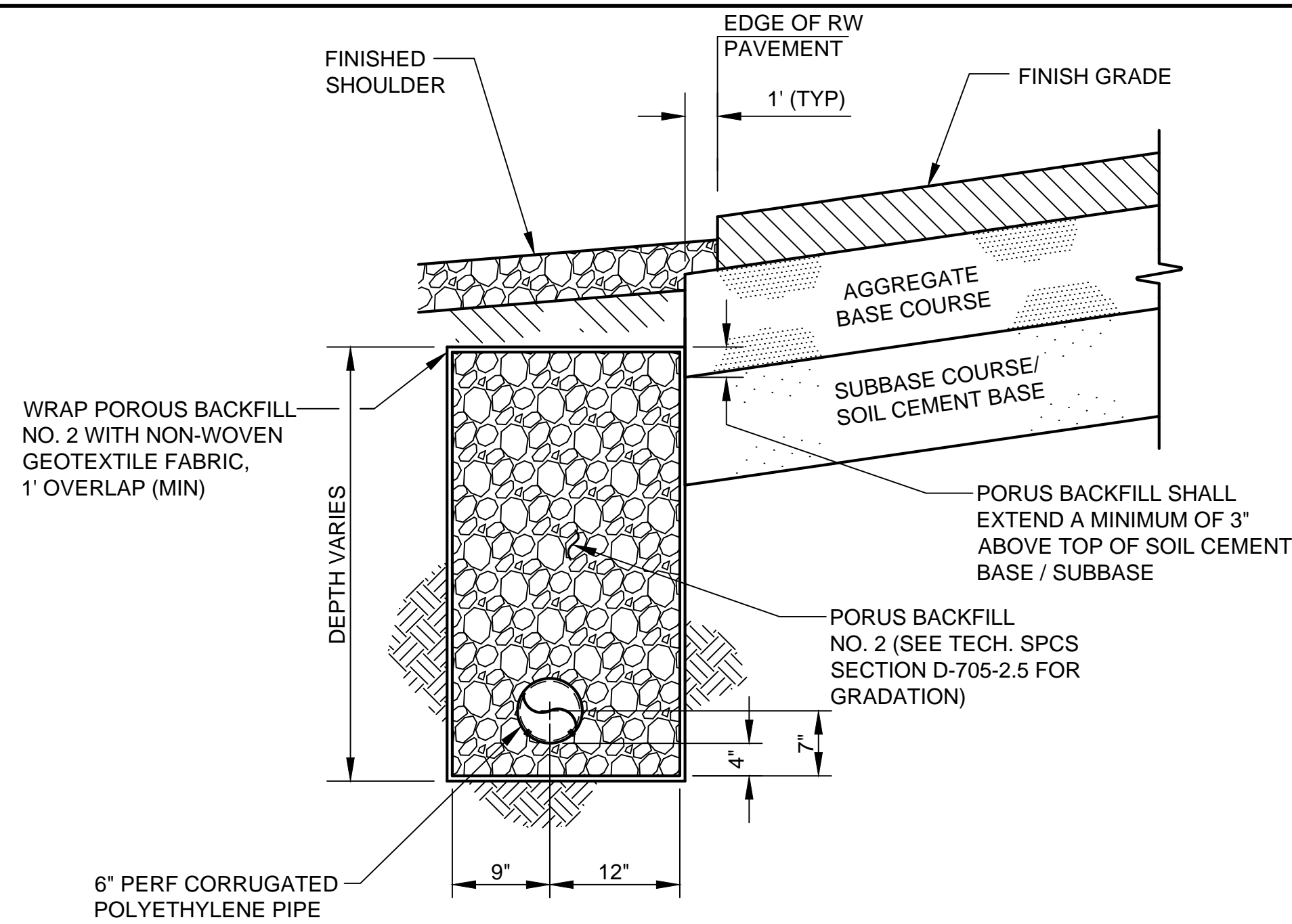
4
C-45



STORM DRAIN TRENCH DETAIL
NEW PAVED AREAS

N.T.S.

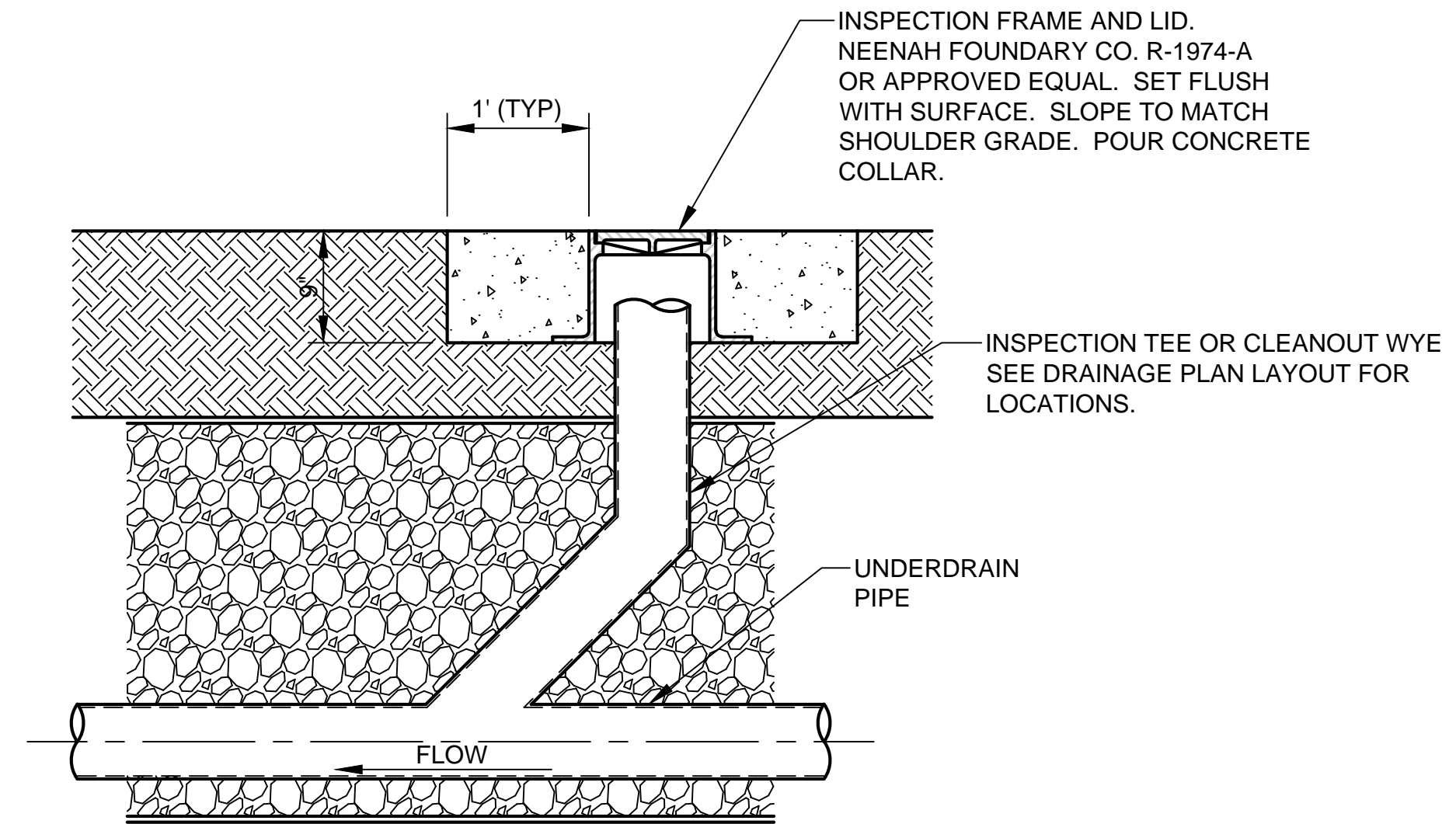
5
C-45



UNDERDRAIN DETAIL
STANDARD PAVEMENT EDGE

1
C-46

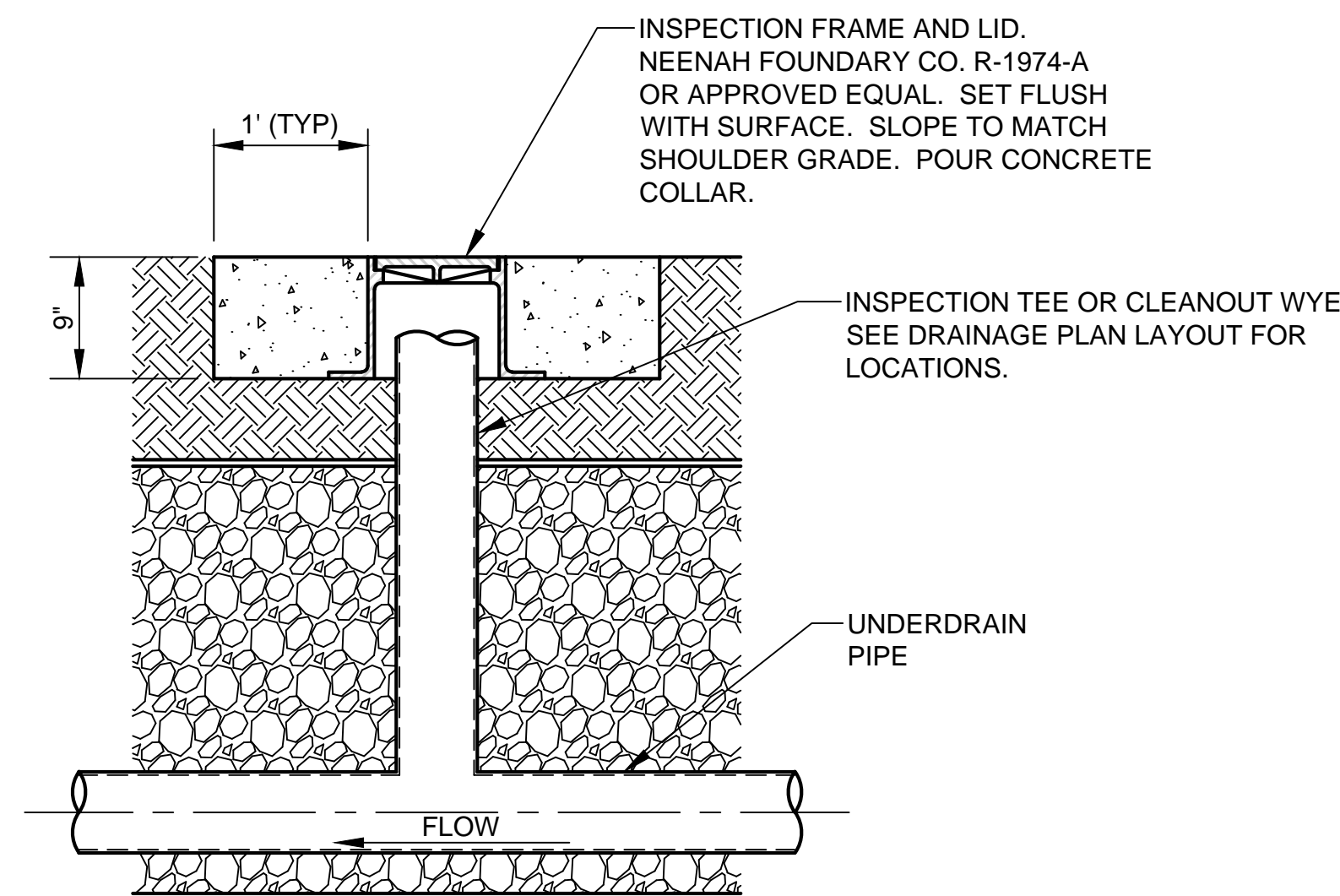
N.T.S.



CLEAN-OUT WYE DETAIL

2
C-46

N.T.S.

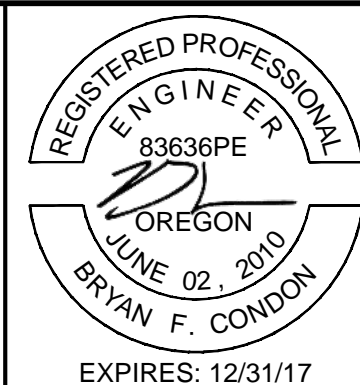


INSPECTION TEE DETAIL

3
C-46

N.T.S.

S:\Municipal\Projects\40228 City of McMinnville\008\03\---CADD---\Working Drawings\C-46 UNDERDRAIN DETAILS.dwg



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503.639.2710 FAX

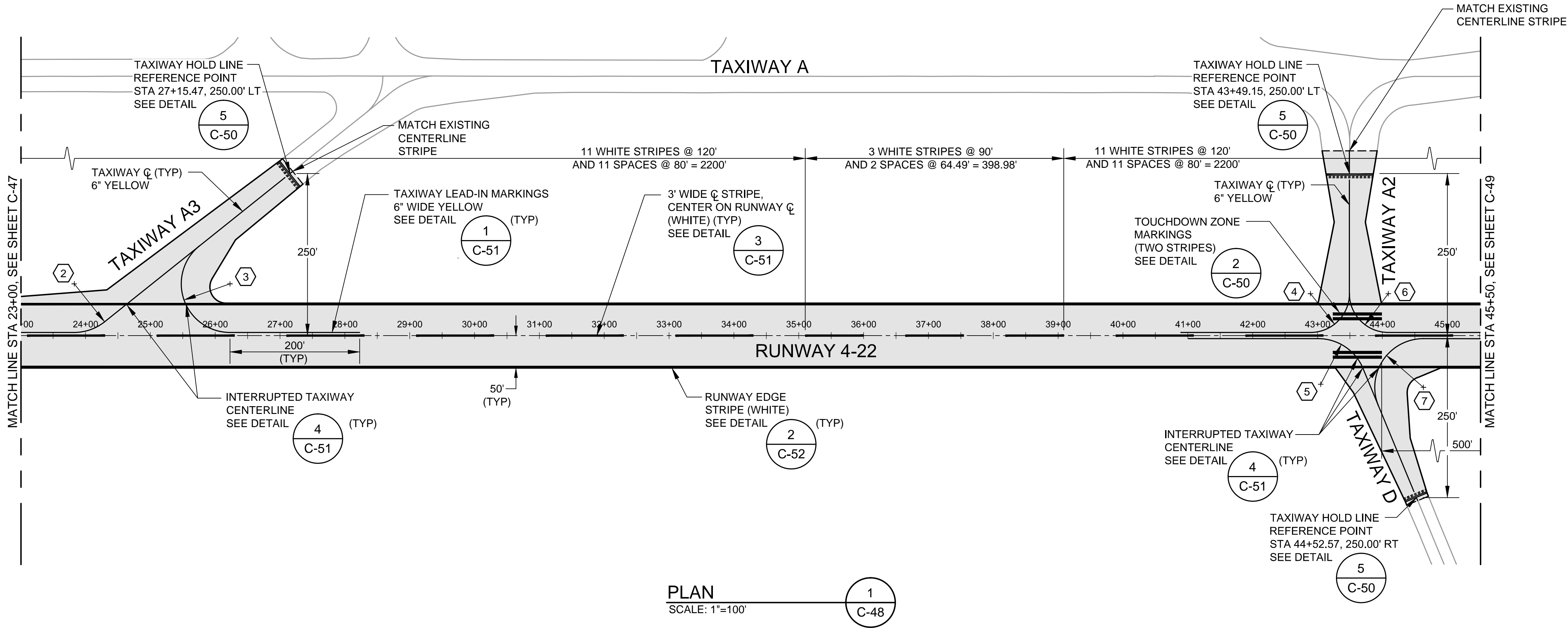
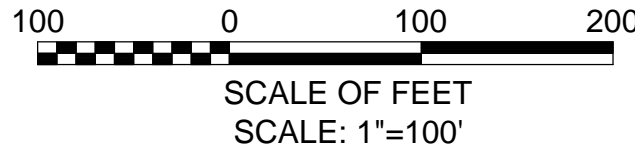
DATE: APRIL 2016

PROJECT NO: 40228.008.03

DESIGNED BY: BFC
DRAWN BY: JLS
CHECKED BY: JNR
SCALE: AS NOTED

CITY OF MCMINNVILLE MCMINNVILLE MUNICIPAL AIRPORT RUNWAY 4-22 REHABILITATION PROJECT		DRAWING NO. C-46
UNDERDRAIN DETAILS		SHEET NO. 56 OF 80

CURVE TABLE						
CURVE	R	DELTA	L	RADIUS POINT		
				STATION	OFFSET	ALIGNMENT
2	75.00'	38°39'12"	50.60'	23+82.54	79.75' LT	RW 4-22
3	75.00'	141°20'48"	185.02'	26+22.69	79.75' LT	RW 4-22
4	60.00'	90°00'0"	94.25'	42+89.15	64.75' LT	RW 4-22
5	75.00'	67°31'31"	88.39'	43+00.98	79.75' RT	RW 4-22
6	60.00'	90°00'00"	94.25'	44+09.15	64.75' LT	RW 4-22
7	75.00'	112°28'29"	147.23'	44+63.30	79.75' RT	RW 4-22



PLAN
SCALE: 1"=100'

LEGEND

- NEW PAVEMENT
- EXISTING PAVEMENT
- SAWCUT EXISTING PAVEMENT

S:\Municipal\Projects\40228 City of McMinnville\008\03-CADD-Working Drawings\C-48 PAVEMENT MARKING PLAN.dwg



VERIFY SCALES
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NO.	DATE	BY	APPR	REVISIONS

PORTLAND OFFICE
5331 SW MACADAM AVE., #207
PORTLAND, OR 97239
503.419.2130
503.639.2710 FAX

DESIGNED BY: BFC

DRAWN BY: JLS

CHECKED BY: JNR

SCALE: AS NOTED

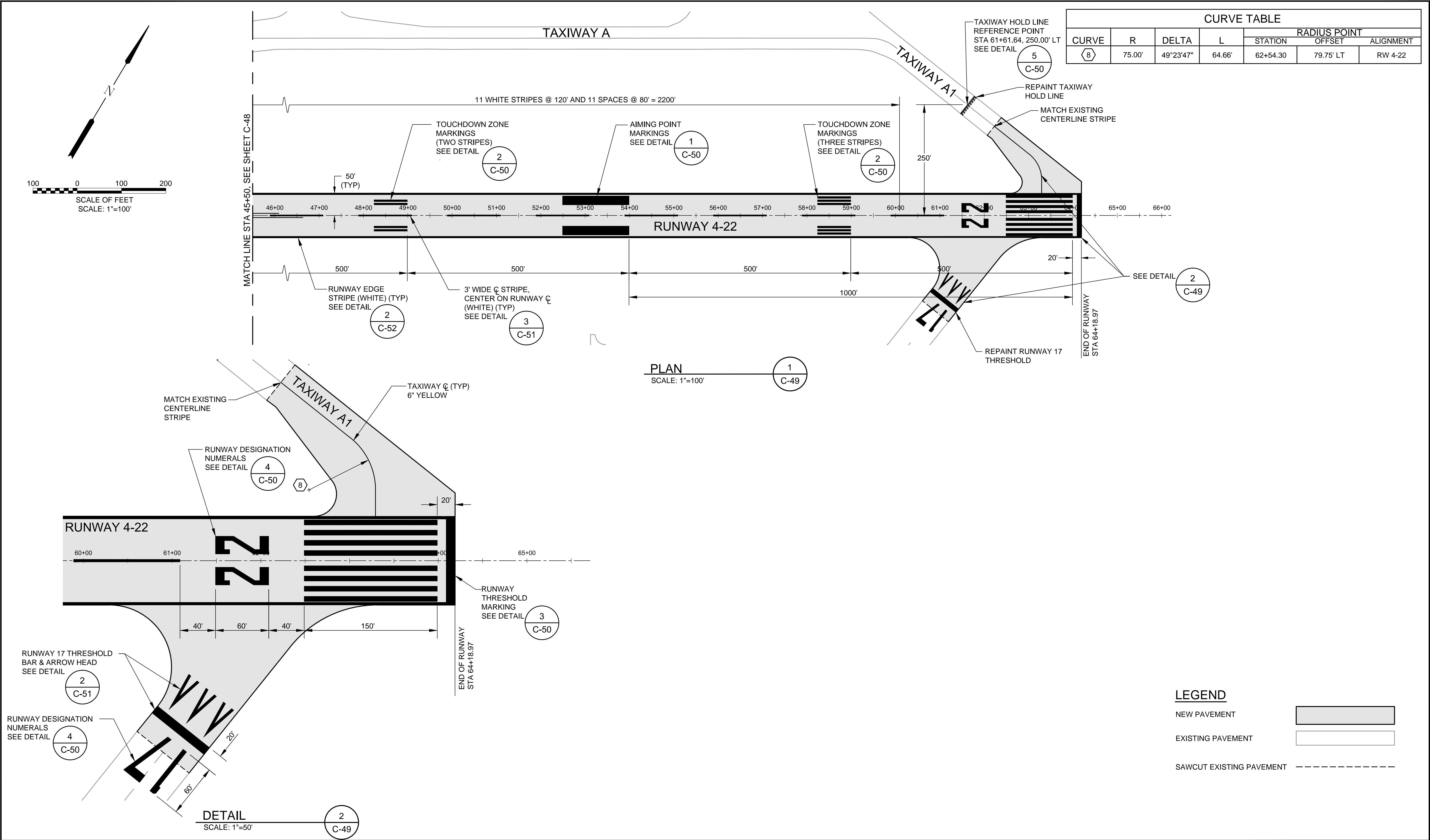
CITY OF MCMINNVILLE
MCMINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

PAVEMENT MARKING PLAN
STA 23+00 TO STA 45+50

DRAWING NO.
C-48

SHEET NO.
58 OF 80

S:\Municipal\Projects\40228 City of McMinnville\008\03\----CADD\----Working Drawings\C-49 PAVEMENT MARKING PLAN.dwg



CURVE TABLE						
CURVE	R	DELTA	L	RADIUS POINT		
				STATION	OFFSET	ALIGNMENT
(8)	75.00'	49°23'47"	64.66'	62+54.30	79.75' LT	RW 4-22

LEGEND

- NEW PAVEMENT
- EXISTING PAVEMENT
- SAWCUT EXISTING PAVEMENT

VERIFY SCALES

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0" 1"

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PORTLAND, OR 97239
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503.639.2710 FAX

DESIGNED BY: BFC

DRAWN BY: JLS

CHECKED BY: JNR

SCALE: AS NOTED

DATE: APRIL 2016

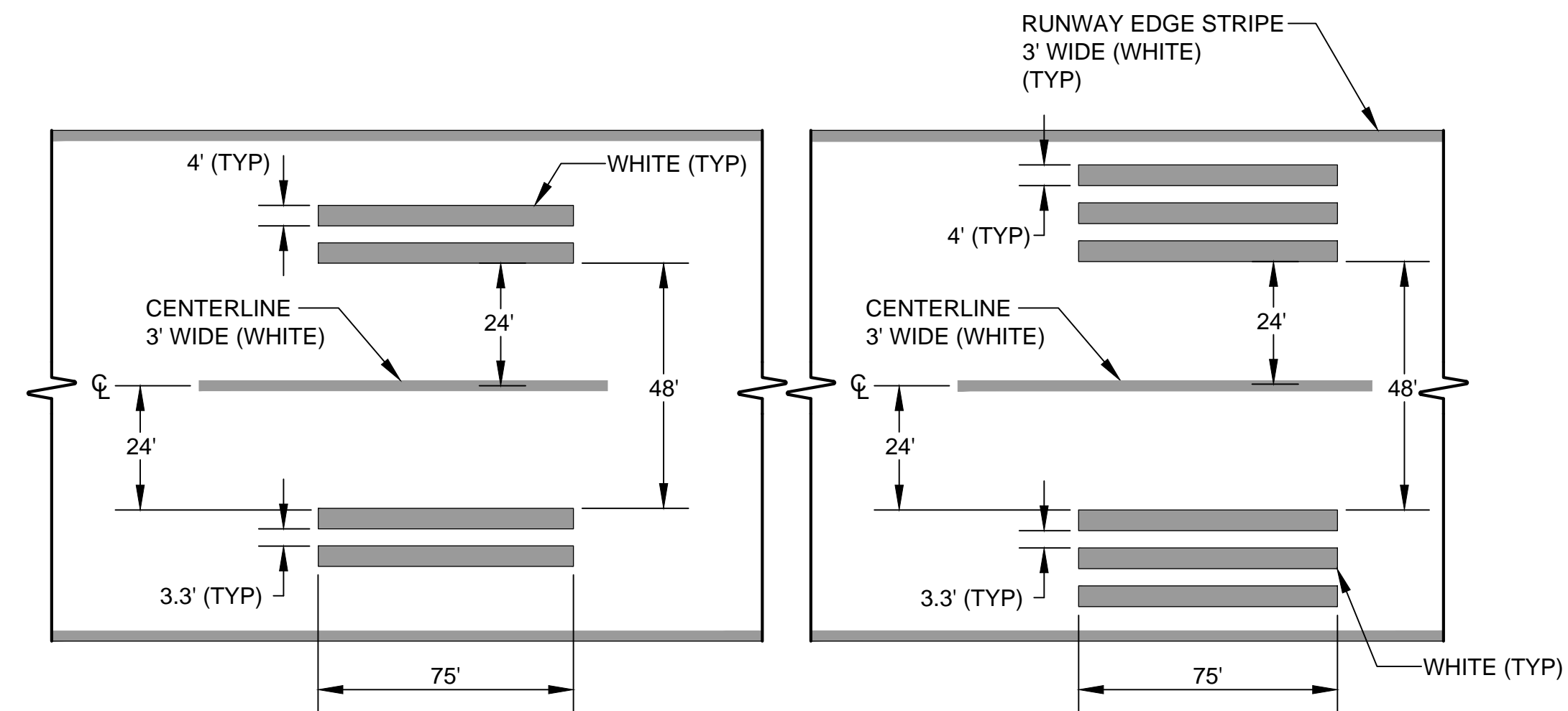
PROJECT NO: 40228.008.03

CITY OF MCMINNVILLE
MCMINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

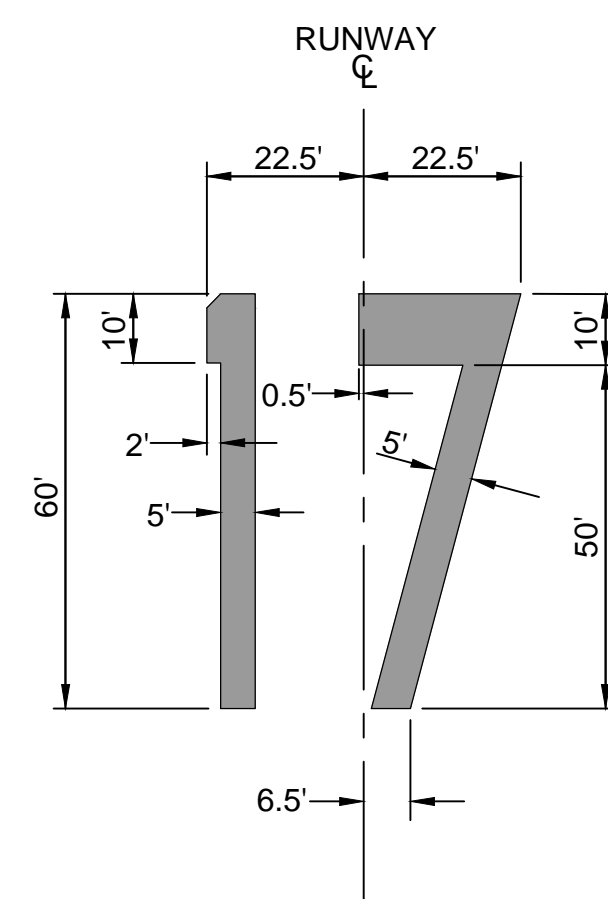
PAVEMENT MARKING PLAN
STA 45+50 TO STA 66+00

DRAWING NO.
C-49

SHEET NO.
59 OF 80



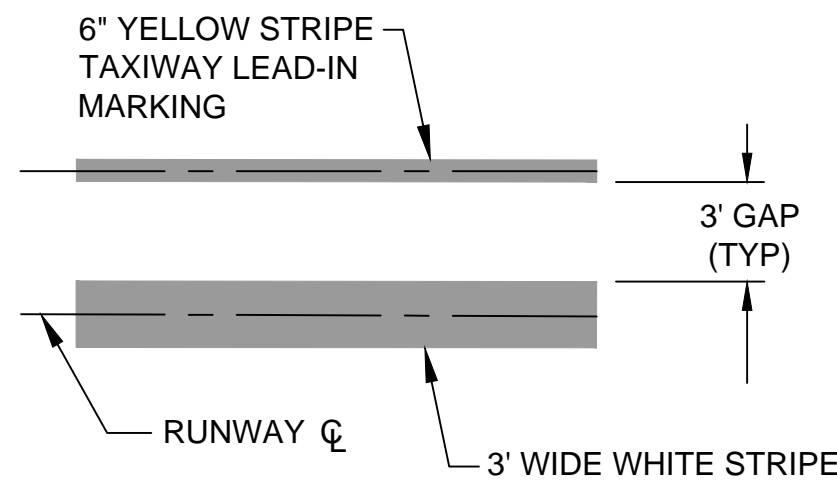
THREE STRIPES



TAXIWAY HOLD LINE
N.T.S.

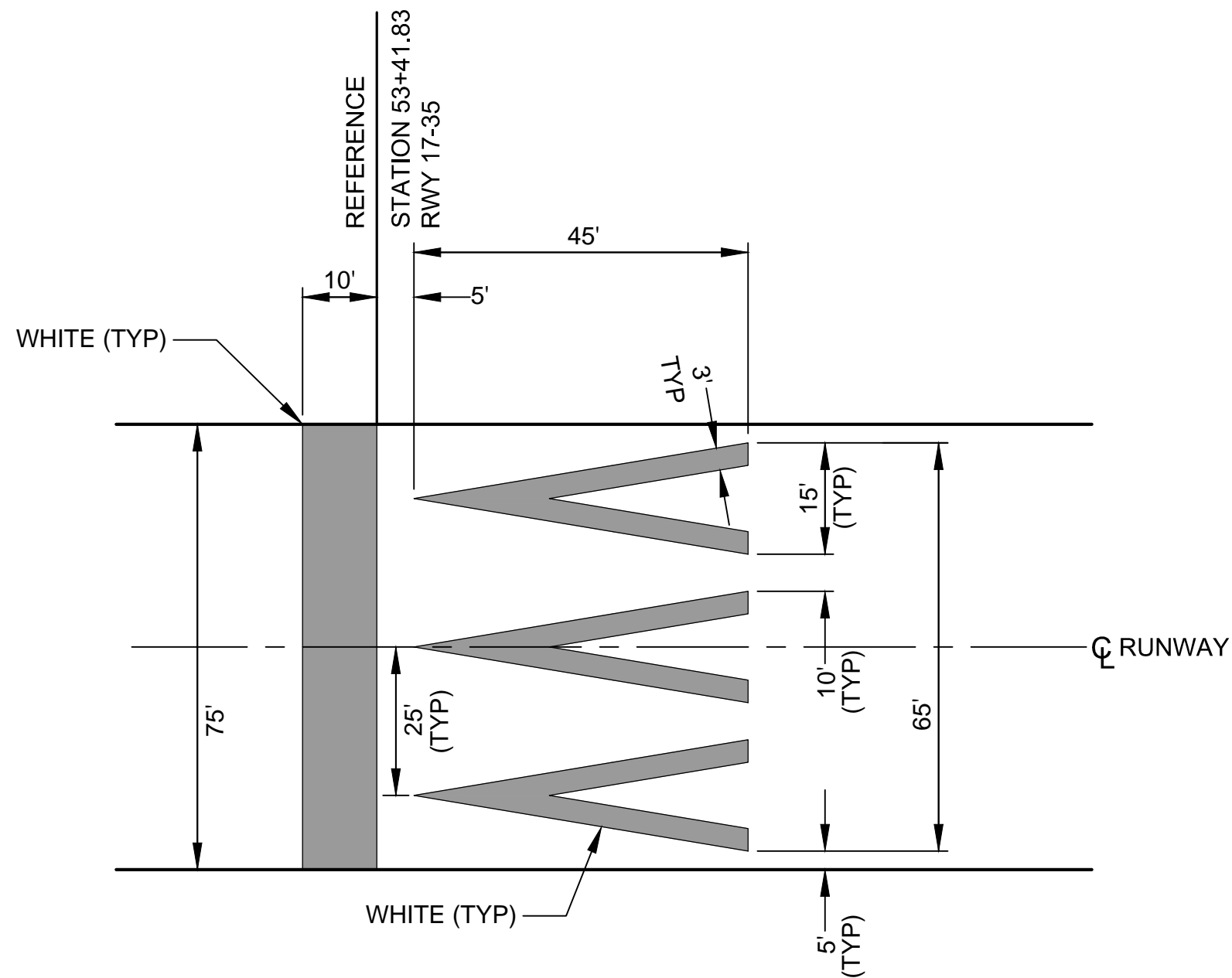
RUNWAY DESIGNATION NUMERALS
N.T.S.

S:\Municipal\Projects\40228 City of McMinnville\008\03\....CADD\....Working Drawings\C-51 PAVEMENT MARKING DETAILS I.dwg



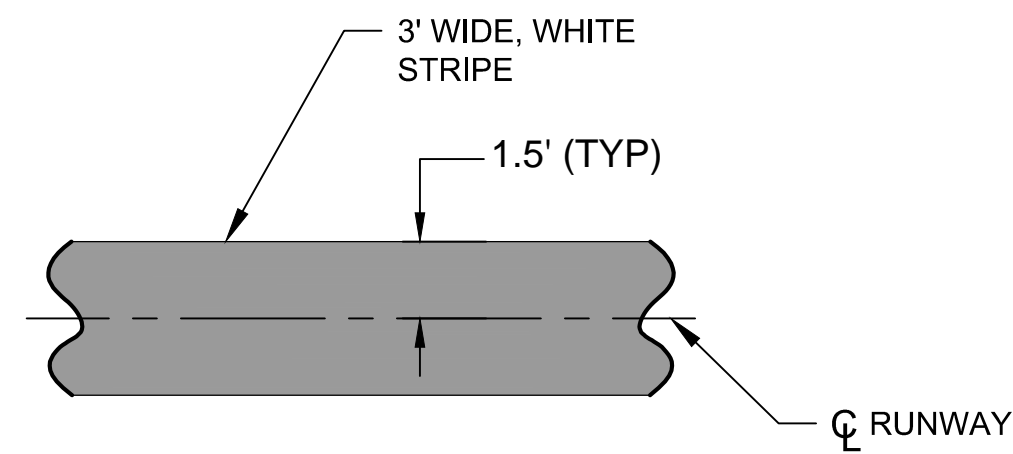
TAXIWAY LEAD-IN MARKINGS
N.T.S.

1
C-51



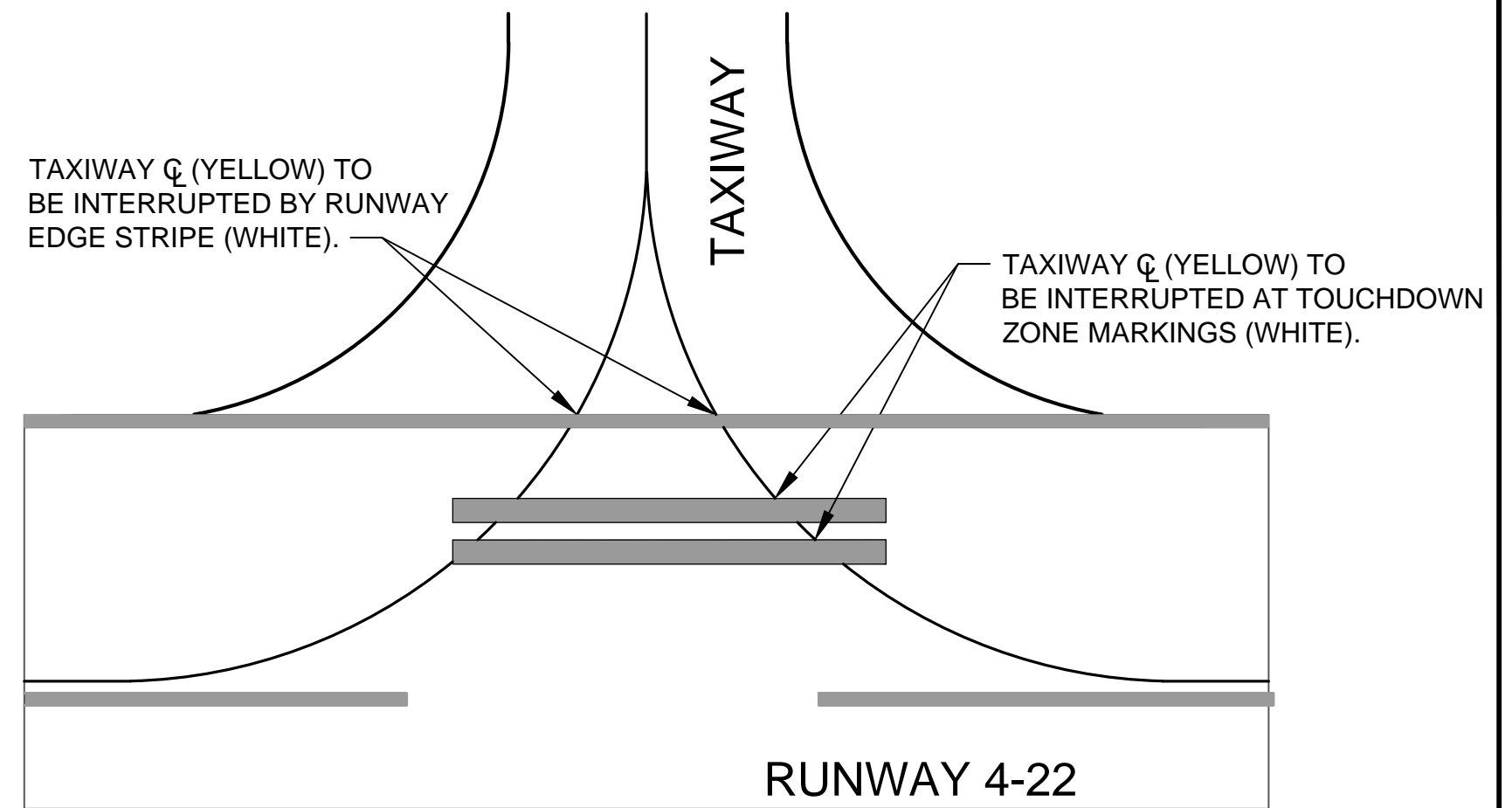
RUNWAY 17 THRESHOLD
BAR & ARROW HEAD DETAIL
N.T.S.

2
C-51



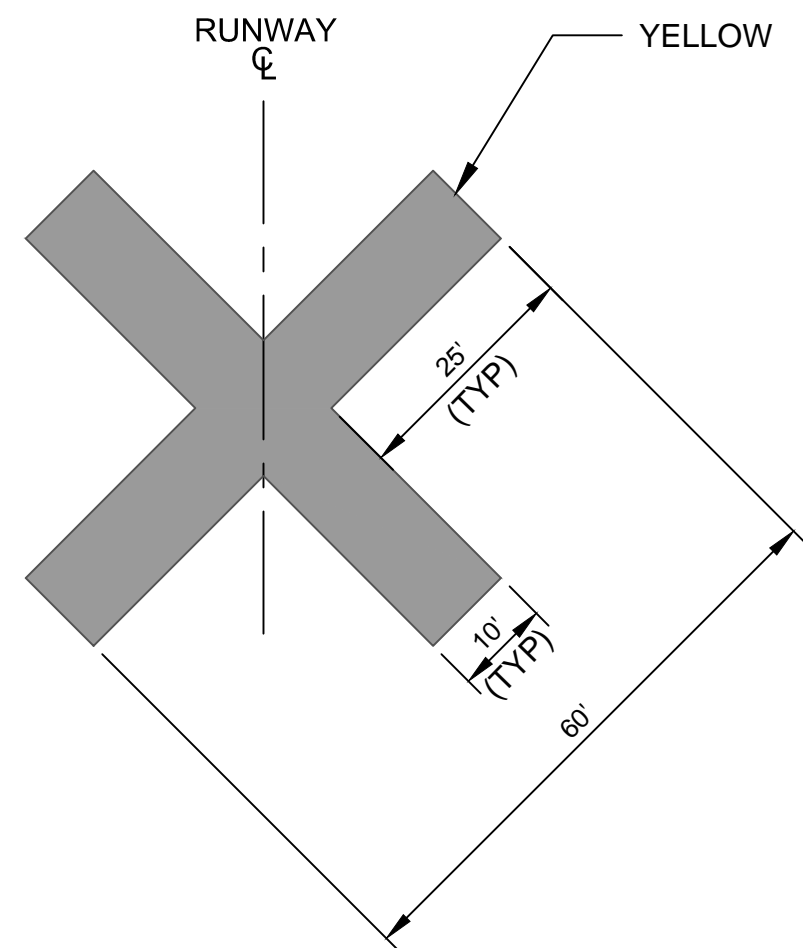
RUNWAY CENTERLINE STRIPE DETAIL
N.T.S.

3
C-51



INTERRUPTED TAXIWAY CENTERLINE
N.T.S.

4
C-51

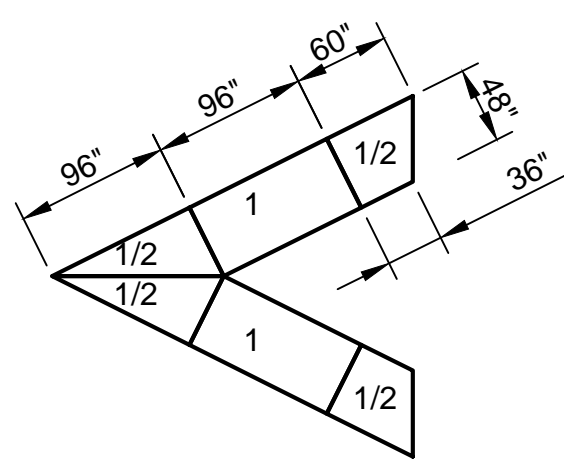


NOTES:

- CLOSING CROSSES TO BE PROVIDED BY THE OWNER AND RETURNED TO THE OWNER AT COMPLETION OF THE PROJECT.
- USE SAND BAGS OR OTHER METHODS APPROVED BY THE ENGINEER TO SECURE CLOSING CROSSES.

RUNWAY CLOSURE CROSS
SCALE: 1"=20'

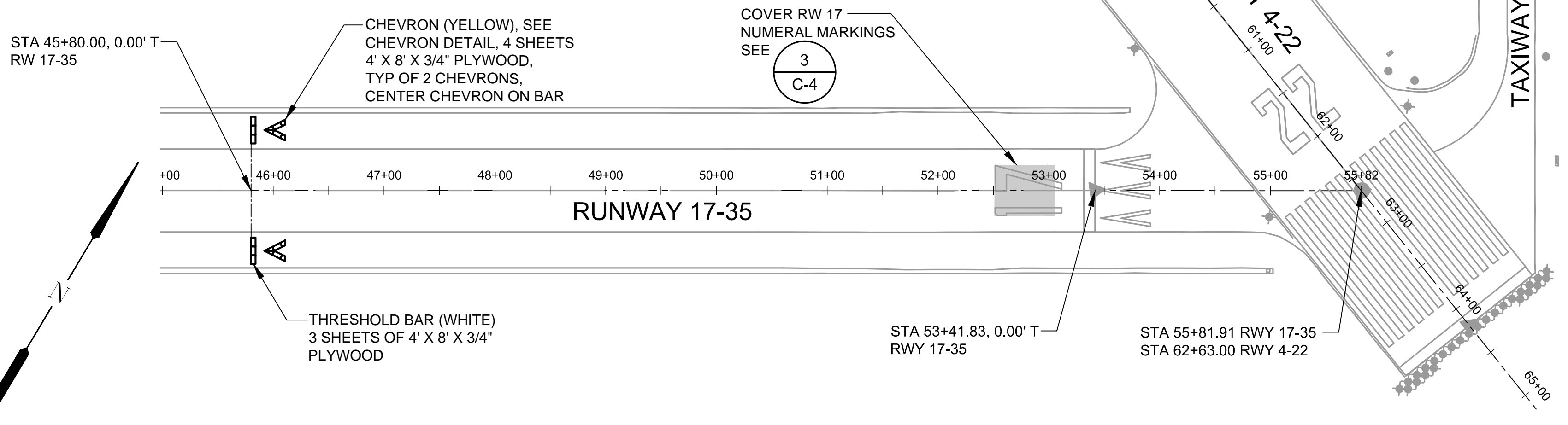
5
C-51



CHEVRON DETAIL

NOTE:

- TIE PLYWOOD SHEETS TOGETHER WITH CLEATS OR USE TRAPS WITH SPIKES OR OTHER APPROVED METHOD.



RUNWAY 17 TEMPORARY
DISPLACED THRESHOLD
N.T.S.

6
C-51

NOTE:

- WORK IN WA 5 REQUIRES A SHORTENED RW 17-35, AND USE OF A TEMPORARY DISPLACED THRESHOLD FOR THE RW 17 THRESHOLD. RW 17 NUMERAL MARKING TO BE COVERED AND THRESHOLD BAR / ARROWHEADS TO BE ELIMINATED AT TIME OF RW 17 THRESHOLD DISPLACEMENT.



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NO.	DATE	BY	APPR	REVISIONS



DATE: APRIL 2016

PORTLAND OFFICE
5331 SW MACADAM AVE., #207
PORTLAND, OR 97239
503.419.2130
503.639.2710 FAX

PROJECT NO: 40228.008.03

DESIGNED BY: BFC
DRAWN BY: JLS
CHECKED BY: JNR
SCALE: AS NOTED

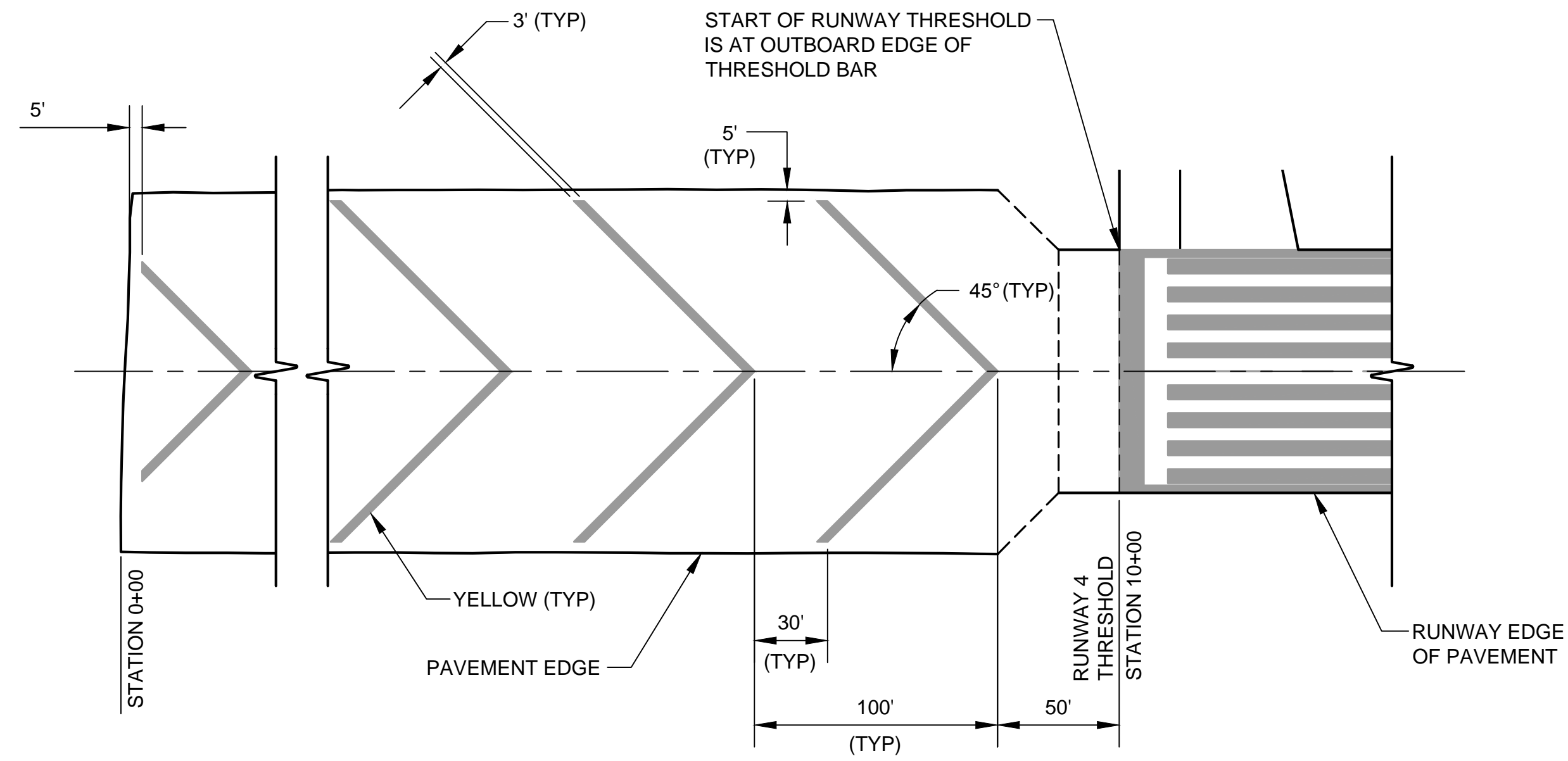
CITY OF MCMINNVILLE
MCMINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

PAVEMENT MARKING DETAILS II

DRAWING NO.
C-51

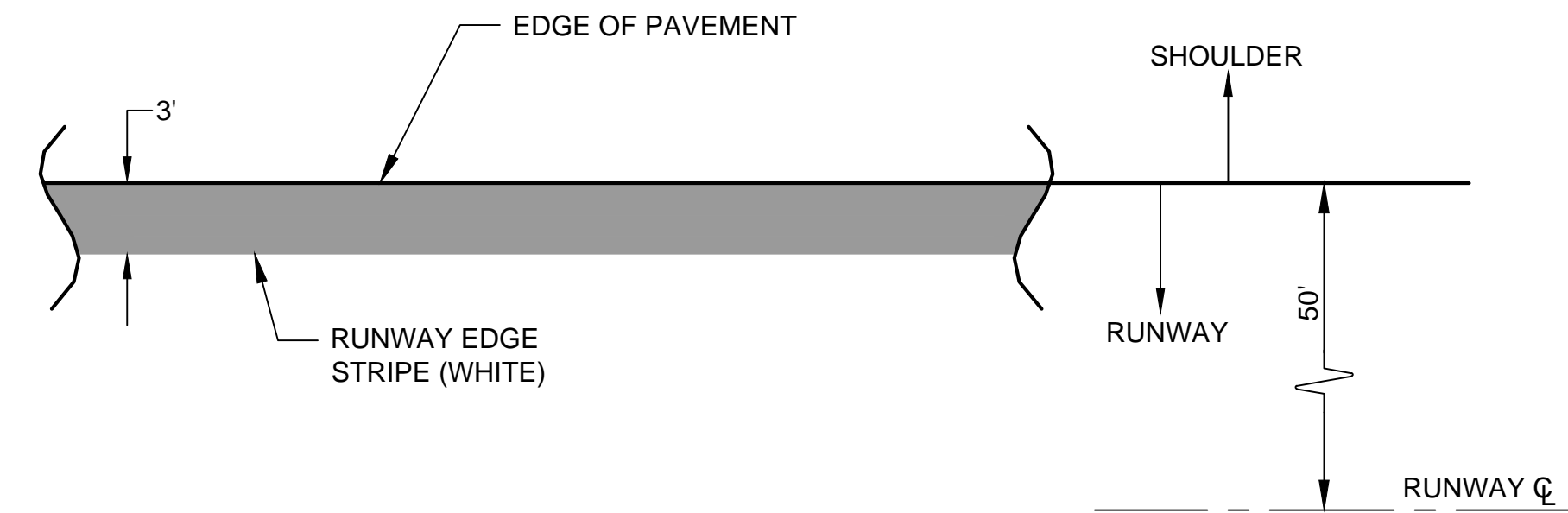
SHEET NO.
61 OF 80

S:\Municipal\Projects\40228 City of McMinnville\008\03-CADD-Working Drawings\C-52 PAVEMENT MARKING DETAILS III.dwg



RUNWAY 4 RSA
MARKING DETAIL
N.T.S.

1
C-52



RUNWAY EDGE STRIPE
N.T.S.

2
C-52



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DATE: APRIL 2016

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PROJECT NO:
40228.008.03

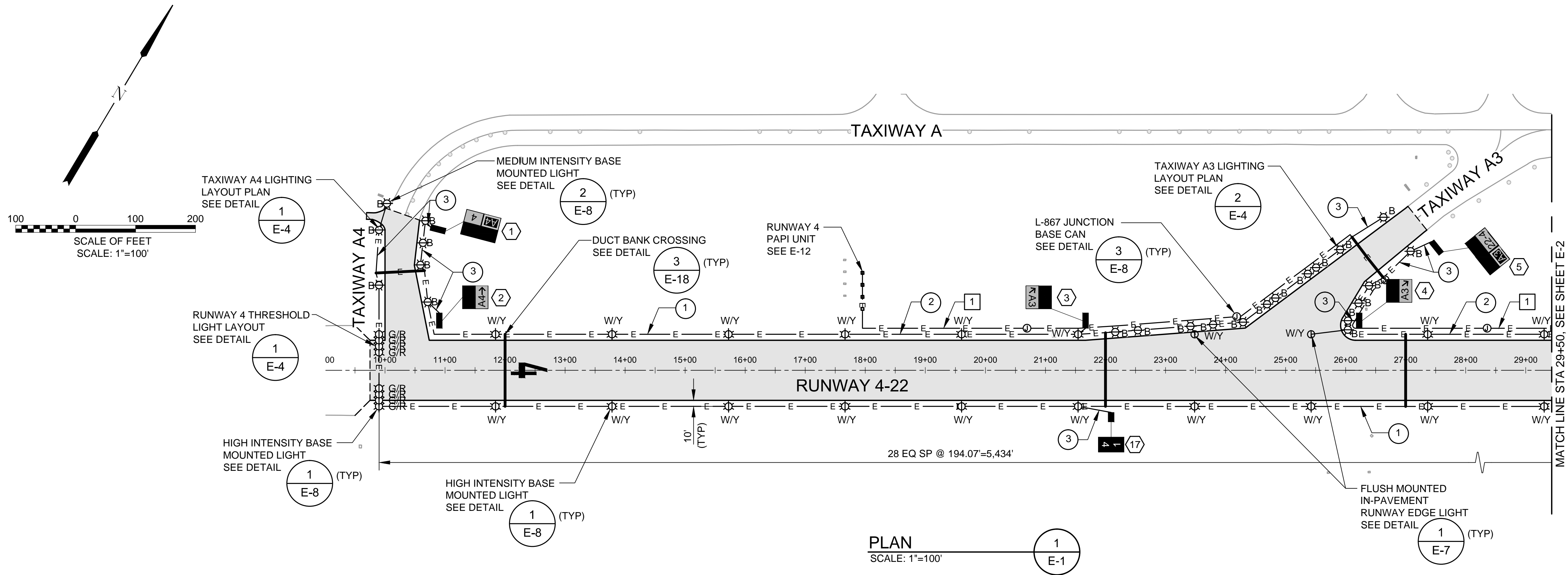
DESIGNED BY: BFC
DRAWN BY: JLS
CHECKED BY: JNR
SCALE: AS NOTED

CITY OF MCMINNVILLE
MCMINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

PAVEMENT MARKING DETAILS III

DRAWING NO.
C-52
SHEET NO.
62 OF 80

S:\Municipal\Projects\40228 City of McMinnville\008\03\----CADD\----Working Drawings\E-1 LIGHTING AND GUIDANCE SIGN PLAN.dwg



HIRL CIRCUIT NOTES:

- ONE (1)-2" CONDUIT, ONE (1)-L-824, #8 AWG, NON-SHIELDED 5KV RATED CABLE, ONE (1)-#6 COUNTERPOISE. SEE CKT #14 OF THE CONDUIT AND CABLE SCHEDULE.
- ONE (1)-2" CONDUIT, ONE (1)-L-824, #8 AWG, NON-SHIELDED 5KV RATED CABLE, ONE (1)-#6 COUNTERPOISE. CONDUIT MAY BE PLACED IN SAME TRENCH AS PAPI CIRCUIT, WHERE POSSIBLE. SEE CKT #14 OF THE CONDUIT AND CABLE SCHEDULE.
- ONE (1)-2" CONDUIT, TWO (2)-L-824, #8 AWG, NON-SHIELDED 5KV RATED CABLES, ONE (1)-#6 COUNTERPOISE. CONDUIT MAY BE PLACED IN SAME TRENCH AS PAPI CIRCUIT, WHERE POSSIBLE. SEE CKT #14 OF THE CONDUIT AND CABLE SCHEDULE.

PAPI CIRCUIT NOTES:

- ONE (1)-2" CONDUIT, TWO (2)-L-824, #8 AWG, NON-SHIELDED 5KV RATED CABLES, ONE (1)-#6 COUNTERPOISE. CONDUIT MAY BE PLACED IN SAME TRENCH AS HIRL CIRCUIT. SEE CKT #13 OF THE CONDUIT AND CABLE SCHEDULE.

LIGHT LEGEND:

TOTAL NUMBER OF FIXTURES		NEW		EXISTING
		W/Y	Y/W / W	
51	RUNWAY EDGE LIGHT - ELEVATED	⊗, ⊗	⊗	⊗
3	RUNWAY EDGE LIGHT - FLUSH MOUNTED	⊙, ⊙		⊙
16	RUNWAY THRESHOLD LIGHT	⊗	G/R	⊗
39	TAXIWAY EDGE LIGHT	⊗	B	⊗
11	REFLECTOR	○		⊙

LEGEND:

NEW SIGN / ID	
NEW PAVEMENT	
EXISTING PAVEMENT	
SAWCUT EXISTING PAVEMENT	
ELECTRICAL LINE	
DUCT BANK CROSSING	
JUNCTION BASE CAN	

GENERAL GUIDANCE SIGN NOTES:

- SEE E-9 FOR GUIDANCE SIGN SCHEDULE.
- SEE E-10 FOR GUIDANCE SIGN DETAILS.

GENERAL ELECTRICAL NOTES:

- ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH NEC AND LOCAL ELECTRICAL CODES.
- BID ITEM QUANTITIES ARE BASED ON SINGLE TRENCH/ SINGLE CONDUIT LENGTHS. CONTRACTOR MAY COMBINE TRENCHES. PROVIDE 1' SEPARATION BETWEEN MEDIUM VOLTAGE CIRCUITS AND OTHER CIRCUITS.
- PROPOSED RUNWAY / TAXIWAY EDGE LIGHTS TO BE LOCATED 10' FROM STRUCTURAL EDGE OF PAVEMENT.
- TAXIWAY EDGE LIGHTS ON CURVES ARE EVENLY SPACED FROM PT TO PT AS SHOWN. SEE PLAN AND PROFILE SHEETS FOR PAVEMENT GEOMETRY.



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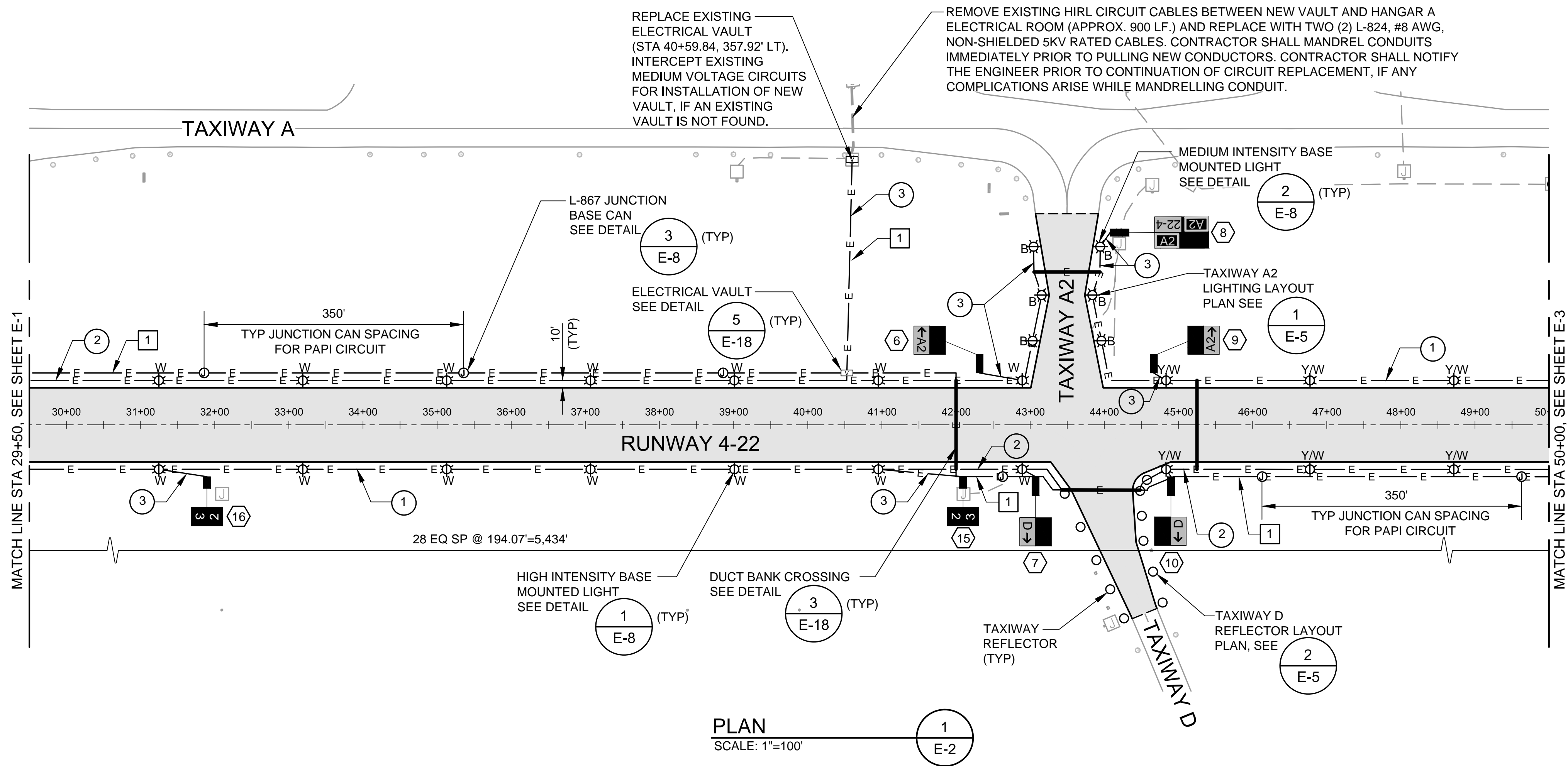
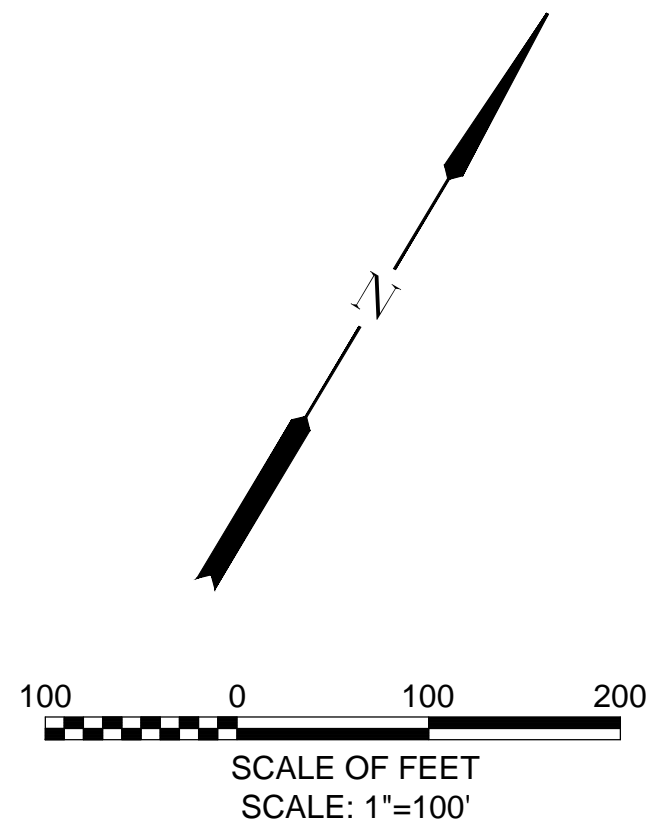
DATE: APRIL 2016

PROJECT NO: 40228.008.03

DESIGNED BY: BFC
DRAWN BY: SLK
CHECKED BY: JNR
SCALE: AS NOTED

CITY OF MCMINNVILLE MCMINNVILLE MUNICIPAL AIRPORT RUNWAY 4-22 REHABILITATION PROJECT		DRAWING NO. E-1
LIGHTING AND GUIDANCE SIGN PLAN RUNWAY 4-22 STA 9+00 TO STA 29+50		SHEET NO. 63 OF 80

S:\Municipal\Projects\40228 City of McMinnville\008\03\....CADD\....Working Drawings\E-2 LIGHTING AND GUIDANCE SIGN PLAN.dwg



HIRL CIRCUIT NOTES:

- ONE (1)-2" CONDUIT, ONE (1)-L-824, #8 AWG, NON-SHIELDED 5KV RATED CABLE, ONE (1)-#6 COUNTERPOISE. SEE CKT #14 OF THE CONDUIT AND CABLE SCHEDULE.
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- ONE (1)-2" CONDUIT, TWO (2)-L-824, #8 AWG, NON-SHIELDED 5KV RATED CABLES, ONE (1)-#6 COUNTERPOISE. CONDUIT MAY BE PLACED IN SAME TRENCH AS PAPI CIRCUIT, WHERE POSSIBLE. SEE CKT #14 OF THE CONDUIT AND CABLE SCHEDULE.

PAPI CIRCUIT NOTES:

- ONE (1)-2" CONDUIT, TWO (2)-L-824, #8 AWG, NON-SHIELDED 5KV RATED CABLES, ONE (1)-#6 COUNTERPOISE. CONDUIT MAY BE PLACED IN SAME TRENCH AS HIRL CIRCUIT. SEE CKT #13 OF THE CONDUIT AND CABLE SCHEDULE.

LEGEND:

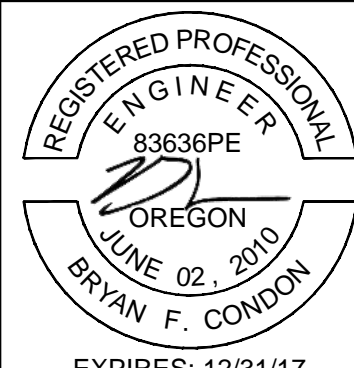
NEW SIGN / ID	
NEW PAVEMENT	
EXISTING PAVEMENT	
SAWCUT EXISTING PAVEMENT	
ELECTRICAL LINE	
DUCT BANK CROSSING	
JUNCTION BASE CAN	
ELECTRICAL VAULT	
RUNWAY EDGE LIGHT - ELEVATED	
TAXIWAY EDGE LIGHT	
REFLECTOR	

GENERAL GUIDANCE SIGN NOTES:

- SEE E-9 FOR GUIDANCE SIGN SCHEDULE.
- SEE E-10 FOR GUIDANCE SIGN DETAILS.

GENERAL ELECTRICAL NOTES:

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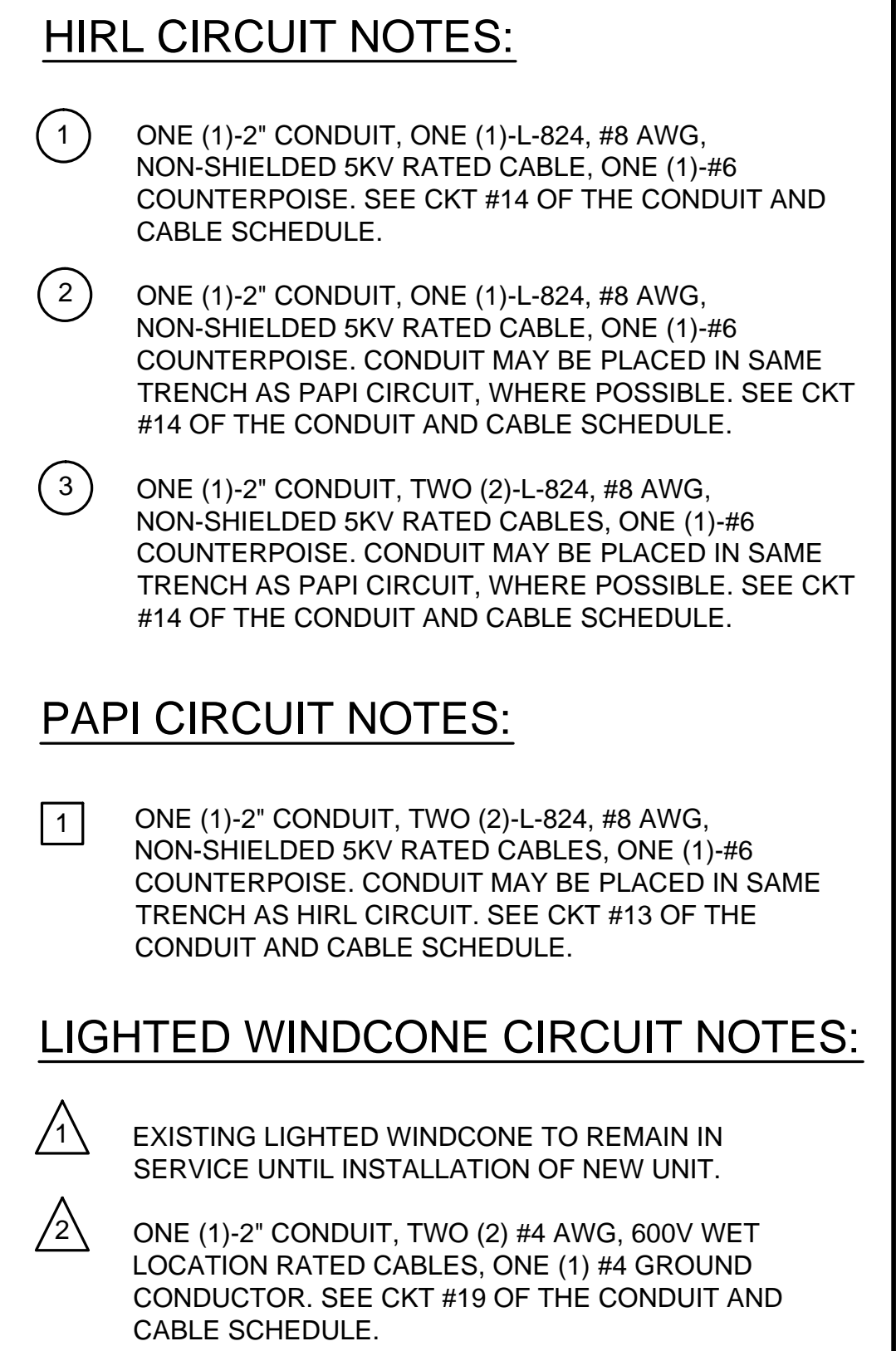


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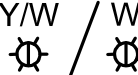



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		PORTLAND OFFICE 5331 SW MACADAM AVE., #207 PORTLAND, OR 97239 503.419.2130 503.639.2710 FAX
DESIGNED BY:	BFC	
DRAWN BY:	SLK	
CHECKED BY:	JNR	
SCALE:	AS NOTED	
DATE:	APRIL 2016	PROJECT NO: 40228.008.03

CITY OF MCMINNVILLE MCMINNVILLE MUNICIPAL AIRPORT RUNWAY 4-22 REHABILITATION PROJECT		DRAWING NO. E-2
LIGHTING AND GUIDANCE SIGN PLAN RUNWAY 4-22 STA 29+50 to STA 50+00		SHEET NO. 64 OF 80



LEGEND:





NEW SIGN / ID		
NEW PAVEMENT		
EXISTING PAVEMENT		
SAWCUT EXISTING PAVEMENT		
ELECTRICAL LINE		
DUCT BANK CROSSING		
JUNCTION BASE CAN		
RUNWAY EDGE LIGHT - ELEVATED		
RUNWAY THRESHOLD LIGHT		
TAXIWAY EDGE LIGHT		
REFLECTOR		

GENERAL GUIDANCE SIGN NOTES:

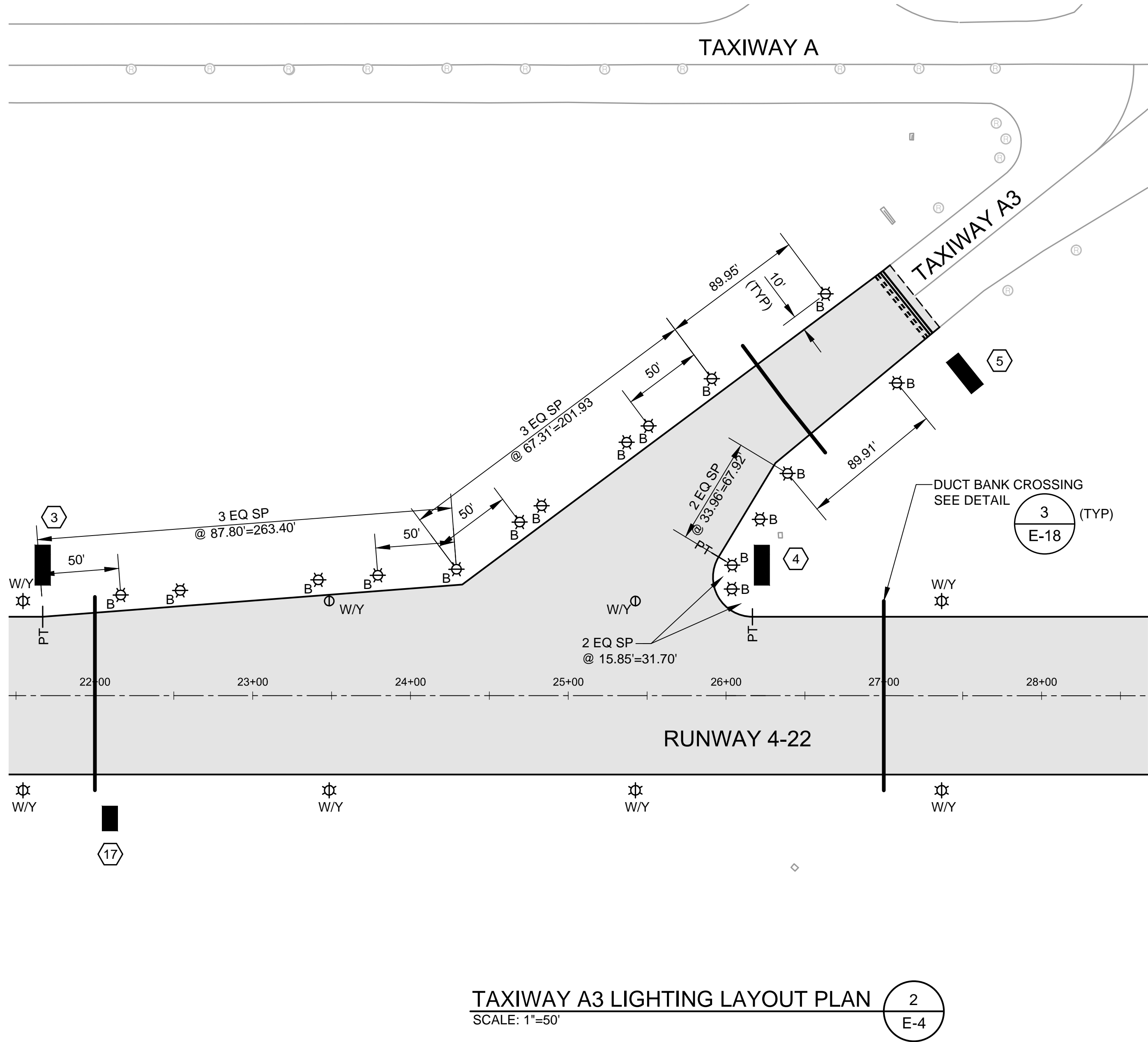
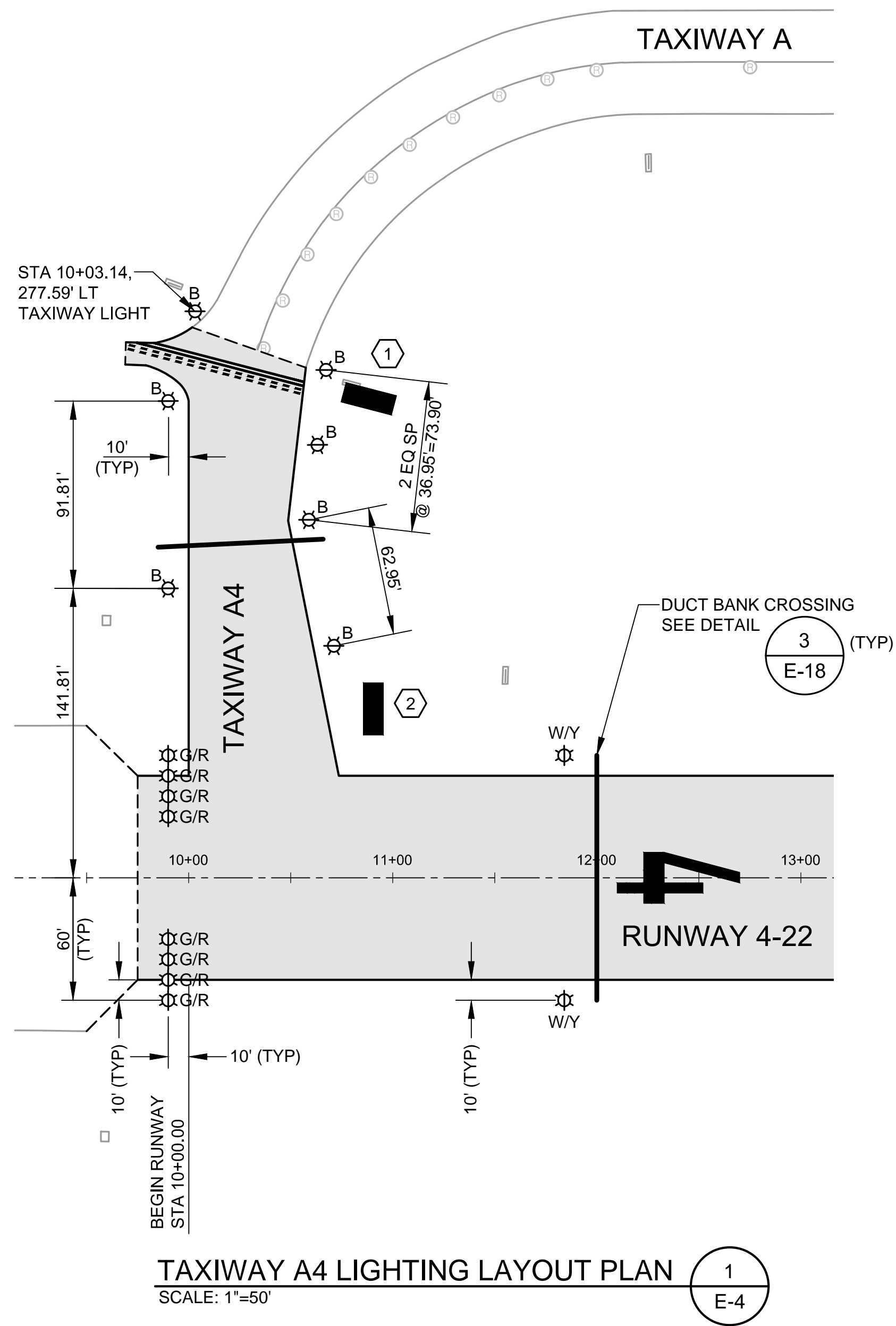
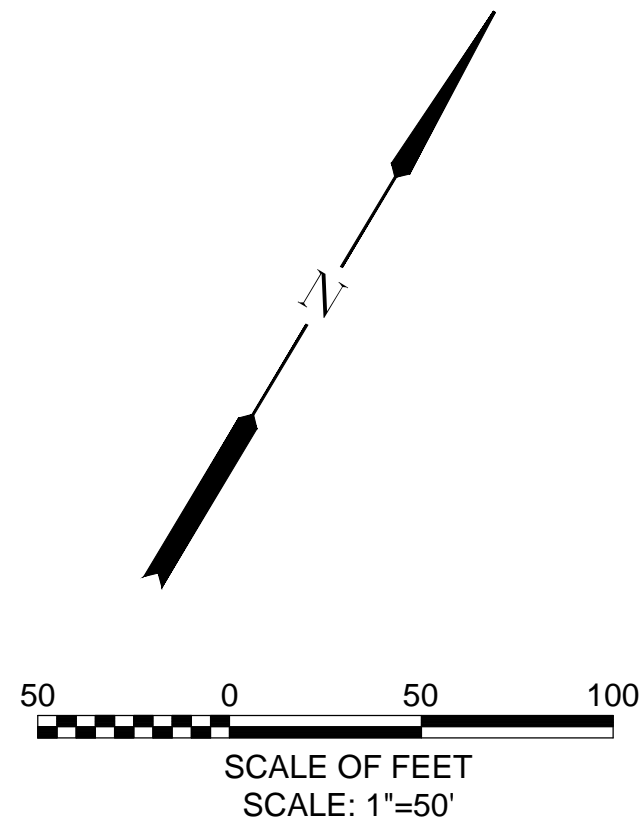
1. SEE E-9 FOR GUIDANCE SIGN SCHEDULE.
2. SEE E-10 FOR GUIDANCE SIGN DETAILS.

GENERAL ELECTRICAL NOTES:

1. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH NEC AND LOCAL ELECTRICAL CODES.
2. BID ITEM QUANTITIES ARE BASED ON SINGLE TRENCH/ SINGLE CONDUIT LENGTHS. CONTRACTOR MAY COMBINE TRENCHES. PROVIDE 1' SEPARATION BETWEEN MEDIUM VOLTAGE CIRCUITS AND OTHER CIRCUITS.
3. PROPOSED RUNWAY / TAXIWAY EDGE LIGHTS TO BE LOCATED 10' FROM STRUCTURAL EDGE OF PAVEMENT.
4. TAXIWAY EDGE LIGHTS ON CURVES ARE EVENLY SPACED FROM PT TO PT AS SHOWN. SEE PLAN AND PROFILE SHEETS FOR PAVEMENT GEOMETRY.

		<p><u>VERIFY SCALES</u></p> <p>BAR IS ONE INCH ON ORIGINAL DRAWING. 0"  1"</p> <p>IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.</p>	<table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>APPR</th> <th colspan="2">REVISIONS</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td colspan="2"> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td colspan="2"> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td colspan="2"> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td colspan="2"> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td colspan="2"> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td colspan="2"> </td></tr> </tbody> </table>					NO.	DATE	BY	APPR	REVISIONS																																						<div>  <div> <div>PORTLAND OFFICE</div> <div>5331 SW MACADAM AVE., #207</div> <div>PORTLAND, OR 97239</div> <div>503.419.2130</div> <div>503.639.2710 FAX</div> </div> </div>		DESIGNED BY: BFC	<div> <div>CITY OF MCMINNVILLE</div> <div>MCMINNVILLE MUNICIPAL AIRPORT</div> <div>RUNWAY 4-22 REHABILITATION PROJECT</div> </div>	DRAWING NO. E-3
			NO.	DATE	BY	APPR	REVISIONS																																															
<div> <div>DATE: APRIL 2016</div> <div>PROJECT NO: 40228.008.03</div> </div>		DRAWN BY: SLK	<div> <div>LIGHTING AND GUIDANCE SIGN PLAN</div> <div>RUNWAY 4-22 STA 50+00 TO STA 66+00</div> </div>	SHEET NO. 65 OF 80																																																		
		CHECKED BY: JNR			SCALE: AS NOTED																																																	

S:\Municipal\Projects\40228 City of McMinnville\008\03\....CADD\....Working Drawings\E-4 LIGHTING AND GUIDANCE SIGN PLAN TWY A4-A3.dwg



LEGEND:

NEW SIGN / ID	#
NEW PAVEMENT	
EXISTING PAVEMENT	
SAWCUT EXISTING PAVEMENT	- - - - -
DUCT BANK CROSSING	—
RUNWAY EDGE LIGHT - ELEVATED	W/Y
RUNWAY EDGE LIGHT - FLUSH MOUNTED	W/Y
RUNWAY THRESHOLD LIGHT	G/R
TAXIWAY EDGE LIGHT	B

GENERAL GUIDANCE SIGN NOTES:

- SEE E-9 FOR GUIDANCE SIGN SCHEDULE.
- SEE E-10 FOR GUIDANCE SIGN DETAILS.


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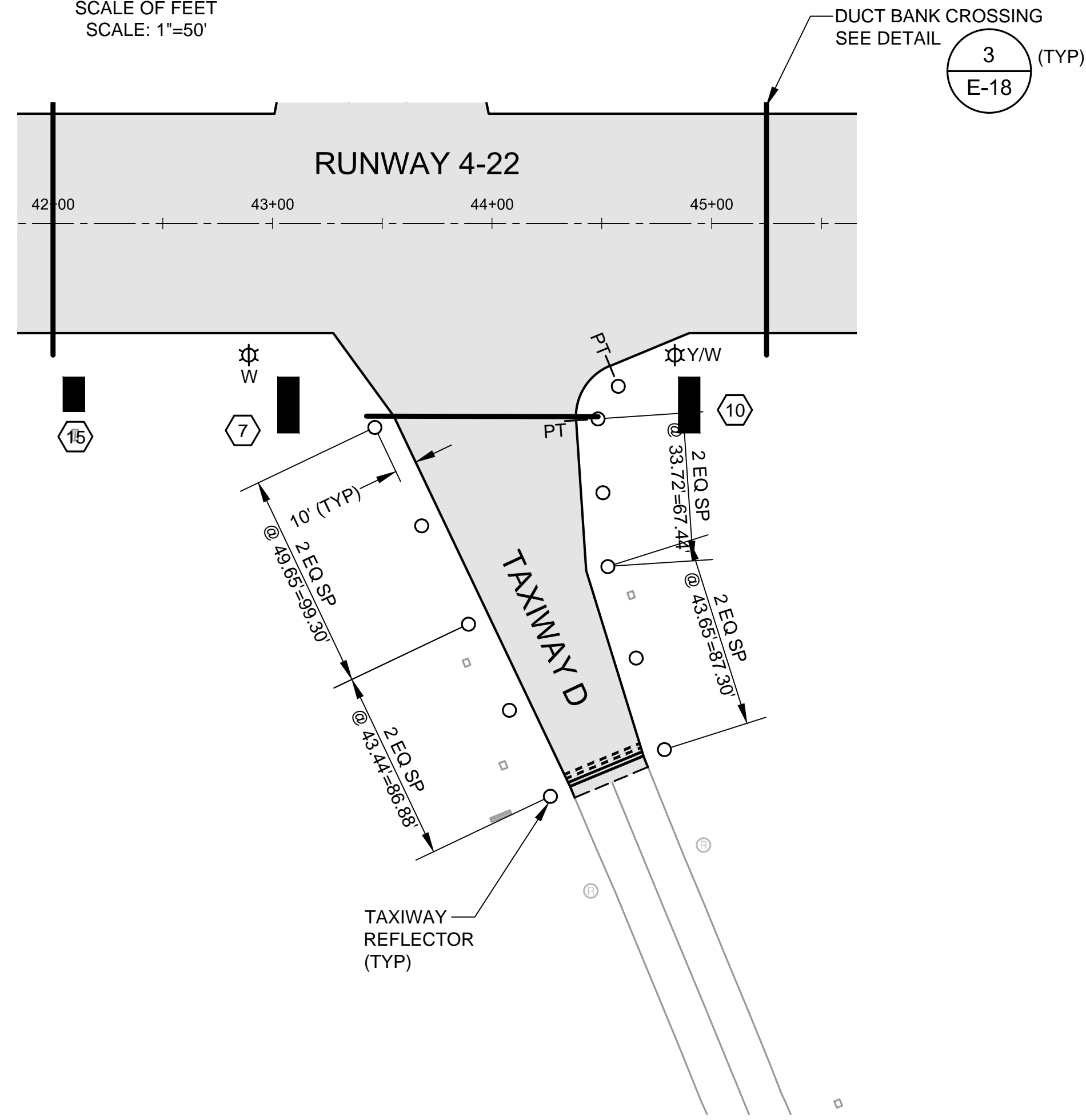

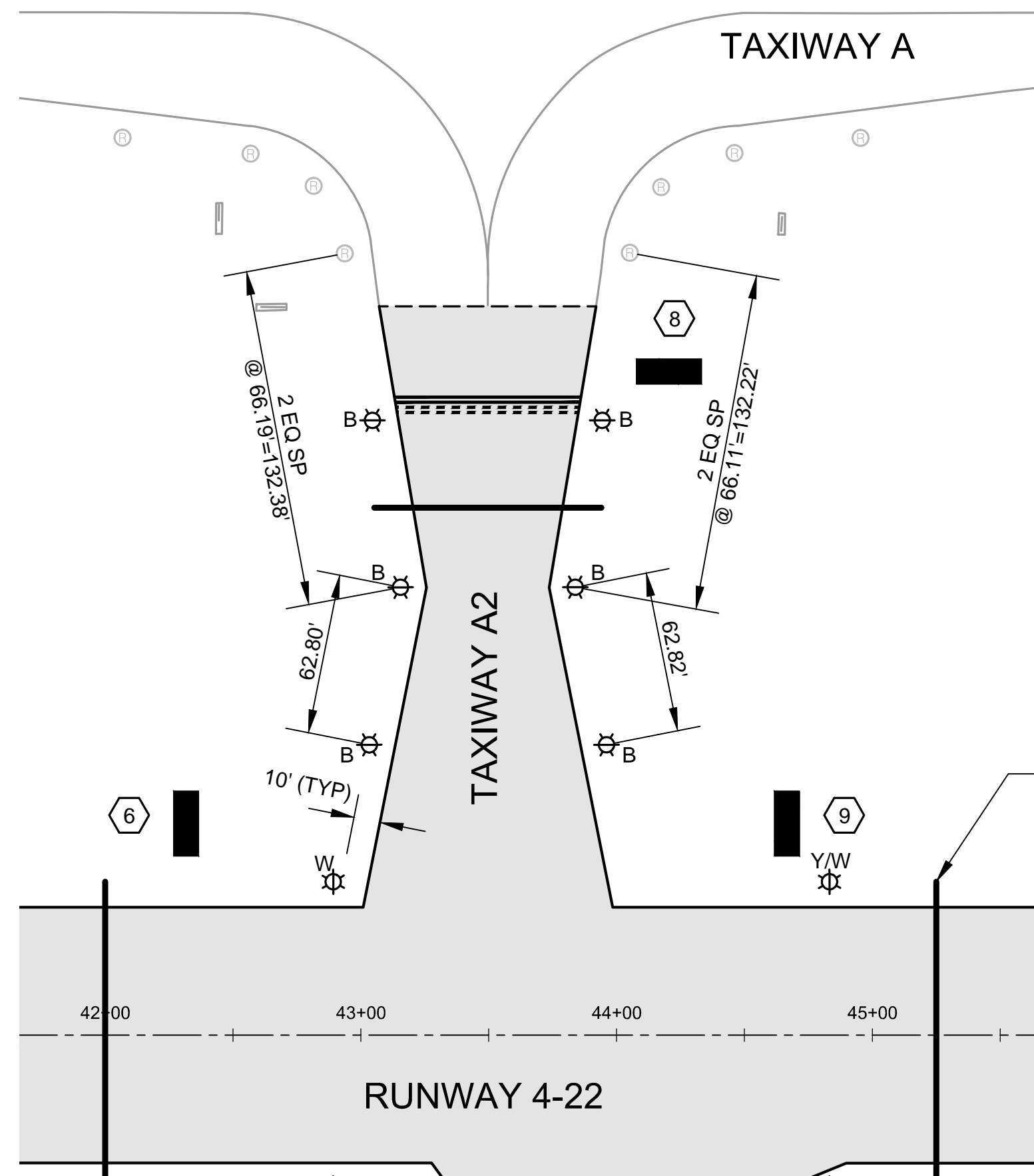
PORTLAND OFFICE
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503.419.2130
503.639.2710 FAX

DATE: APRIL 2016

PROJECT NO: 40228.008.03

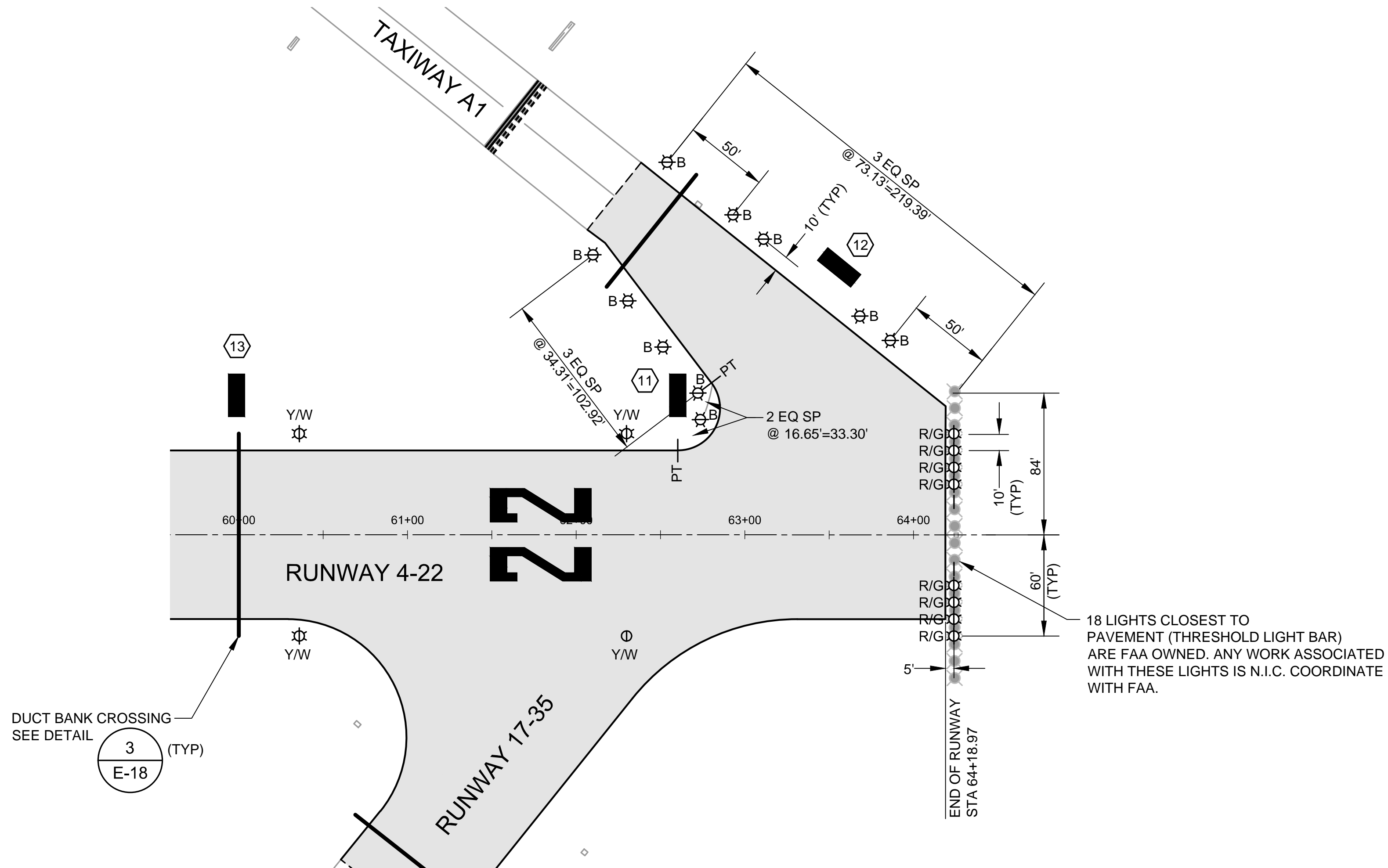
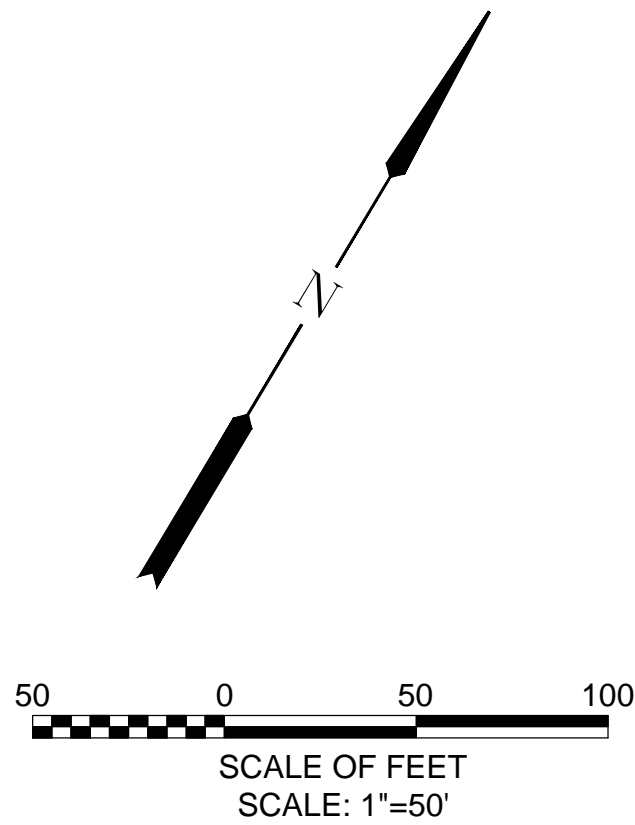
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DRAWN BY: SLK
CHECKED BY: JNR
SCALE: AS NOTED

CITY OF MCMINNVILLE MCMINNVILLE MUNICIPAL AIRPORT RUNWAY 4-22 REHABILITATION PROJECT		DRAWING NO. E-4
LIGHTING AND GUIDANCE SIGN PLAN TAXIWAY A4 AND TAXIWAY A3		SHEET NO. 66 OF 80



1. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH NEC AND LOCAL ELECTRICAL CODES.
2. BID ITEM QUANTITIES ARE BASED ON SINGLE TRENCH/ SINGLE CONDUIT LENGTHS. CONTRACTOR MAY COMBINE TRENCHES. PROVIDE 1' SEPARATION BETWEEN MEDIUM VOLTAGE CIRCUITS AND OTHER CIRCUITS.
3. PROPOSED RUNWAY / TAXIWAY EDGE LIGHTS TO BE LOCATED 10' FROM STRUCTURAL EDGE OF PAVEMENT.
4. TAXIWAY EDGE LIGHTS ON CURVES ARE EVENLY SPACED FROM PT TO PT AS SHOWN. SEE PLAN AND PROFILE SHEETS FOR PAVEMENT GEOMETRY.

S:\Municipal\Projects\40228 City of McMinnville\008\03-----CADD-----Working Drawings\E-6 LIGHTING AND GUIDANCE SIGN PLAN TWY A1 - RWY 17.dwg



TAXIWAY A1 LIGHTING LAYOUT PLAN
SCALE: 1"=50'

LEGEND:

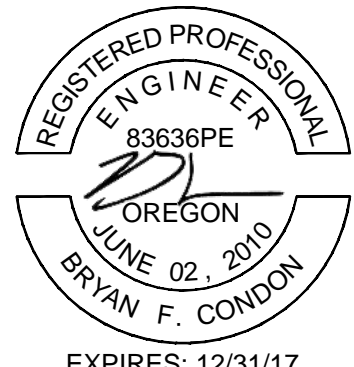
NEW SIGN / ID	#
NEW PAVEMENT	
EXISTING PAVEMENT	
SAWCUT EXISTING PAVEMENT	- - - - -
DUCT BANK CROSSING	—
RUNWAY EDGE LIGHT - ELEVATED	Y/W ⊗
RUNWAY EDGE LIGHT - FLUSH MOUNTED	Y/W ⊙
RUNWAY THRESHOLD LIGHT	⊗ R/G
TAXIWAY EDGE LIGHT	⊗ B

GENERAL GUIDANCE SIGN NOTES:

- SEE E-9 FOR GUIDANCE SIGN SCHEDULE.
- SEE E-10 FOR GUIDANCE SIGN DETAILS.


GENERAL ELECTRICAL NOTES:

- ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH NEC AND LOCAL ELECTRICAL CODES.
- BID ITEM QUANTITIES ARE BASED ON SINGLE TRENCH/ SINGLE CONDUIT LENGTHS. CONTRACTOR MAY COMBINE TRENCHES. PROVIDE 1' SEPARATION BETWEEN MEDIUM VOLTAGE CIRCUITS AND OTHER CIRCUITS.
- PROPOSED RUNWAY / TAXIWAY EDGE LIGHTS TO BE LOCATED 10' FROM STRUCTURAL EDGE OF PAVEMENT.
- TAXIWAY EDGE LIGHTS ON CURVES ARE EVENLY SPACED FROM PT TO PT AS SHOWN. SEE PLAN AND PROFILE SHEETS FOR PAVEMENT GEOMETRY.



VERIFY SCALES
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0" 1"
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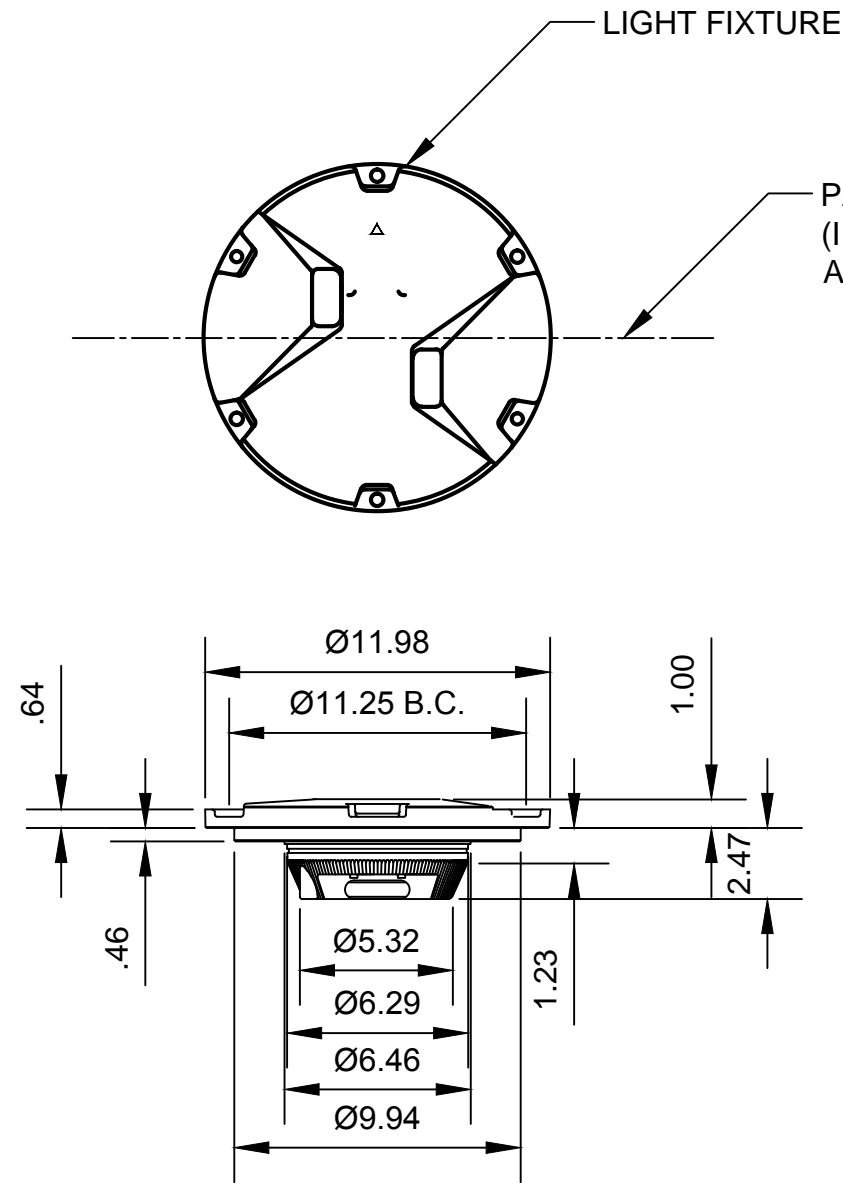
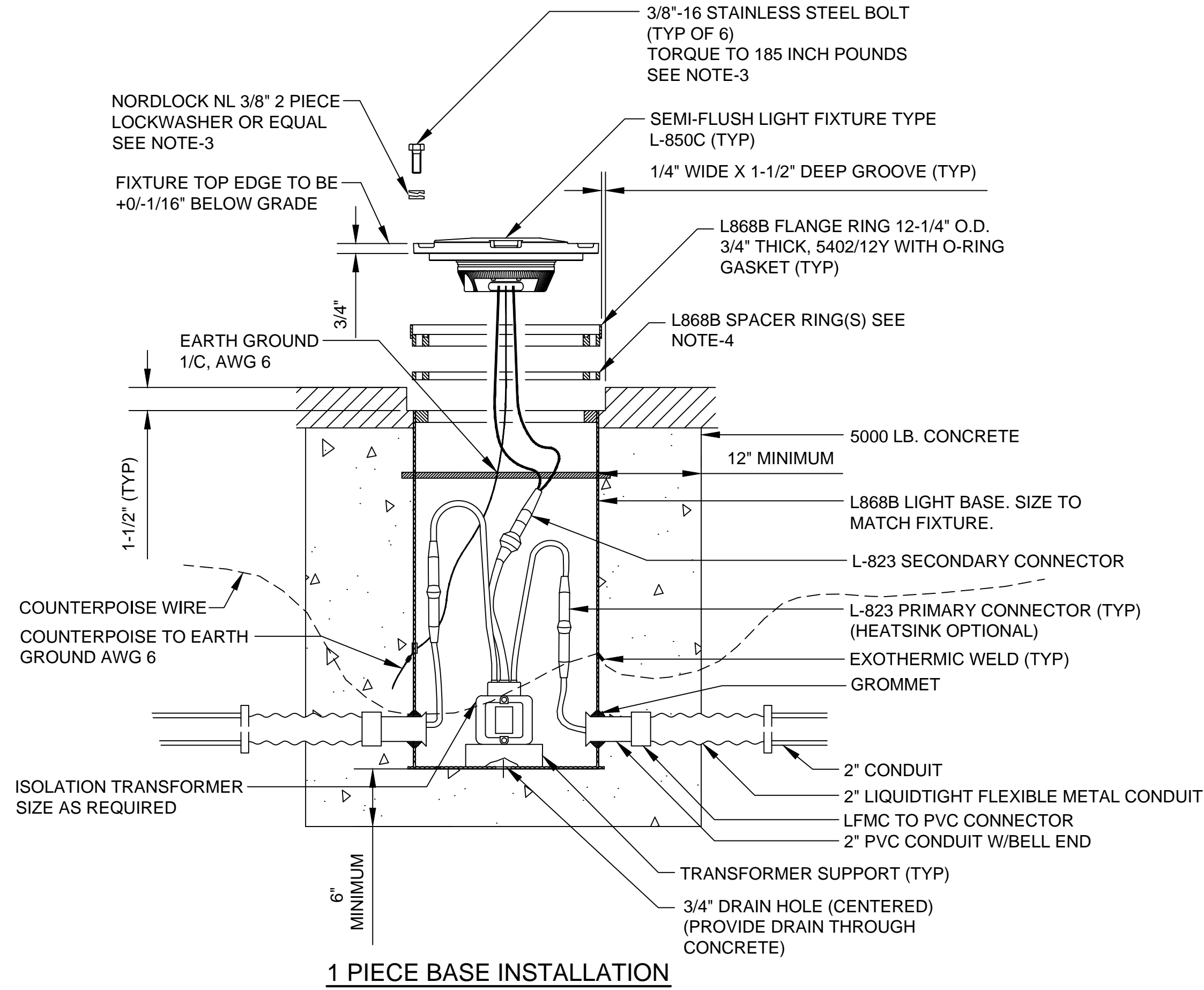
DATE: APRIL 2016

PROJECT NO: 40228.008.03

DESIGNED BY: BFC
DRAWN BY: SLK
CHECKED BY: JNR
SCALE: AS NOTED

CITY OF MCMINNVILLE MCMINNVILLE MUNICIPAL AIRPORT RUNWAY 4-22 REHABILITATION PROJECT		DRAWING NO. E-6
LIGHTING AND GUIDANCE SIGN PLAN TAXIWAY A1		SHEET NO. 68 OF 80

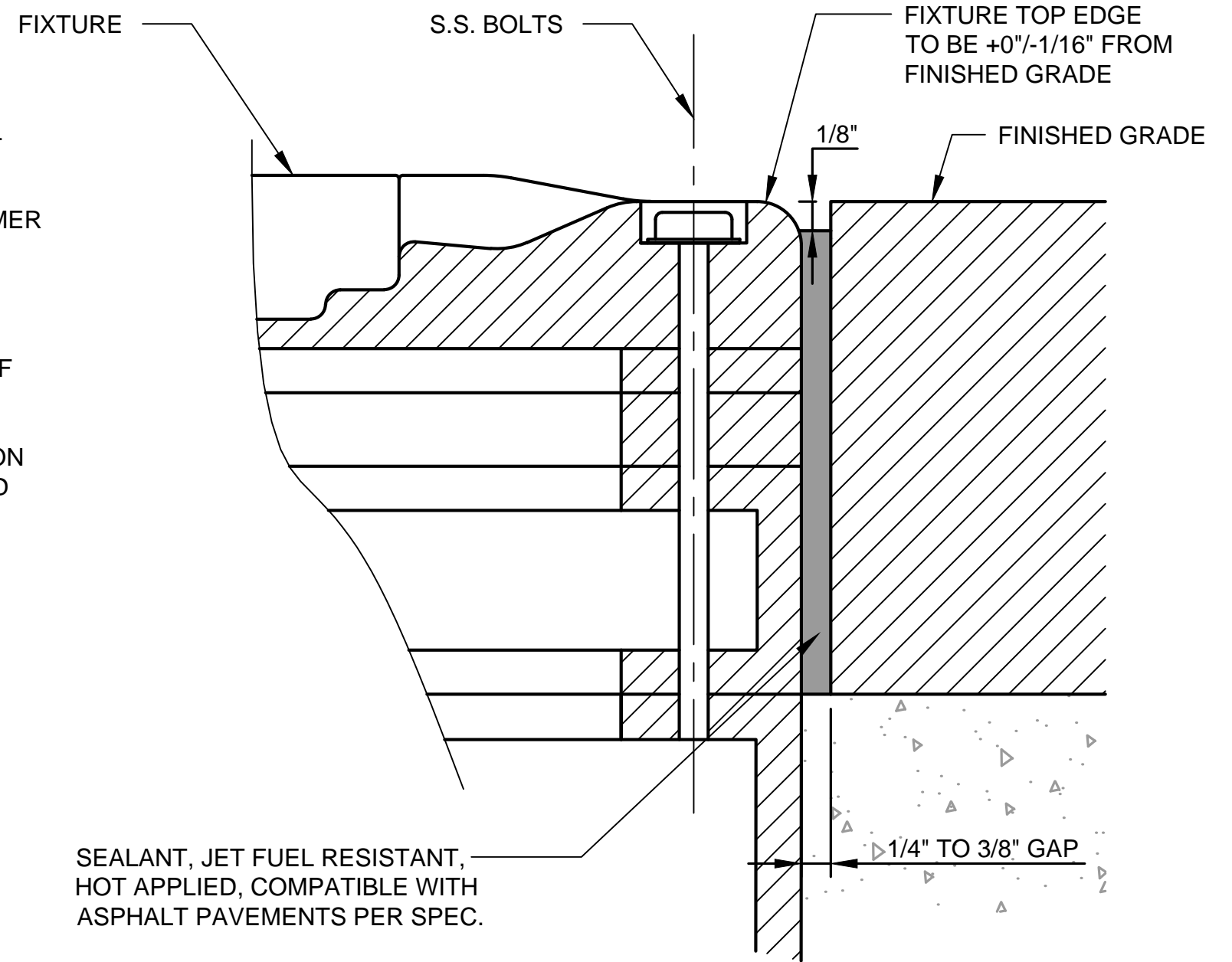
S:\Municipal\Projects\40228 City of McMinnville\008\03\----CADD\----Working Drawings\E-7 LIGHTING DETAILS 1.dwg



REFERENCE DIMENSIONS

LIGHT DETAIL NOTES:

1. LIGHT BASES SHALL BE INSTALLED WITH CARE TO ASSURE VERTICAL AND AZIMUTH ALIGNMENT OF FIXTURE.
2. PROVIDE 3' CABLE SLACK WITHIN LIGHT BASE TO ALLOW TRANSFORMER SERVICING.
3. BOLTS AND WASHERS USED DURING INSTALLATION OF BASE, CABLE AND TRANSFORMERS SHALL BE REPLACED WITH NEW, FOR FINAL INSTALLATION. MINIMUM THREAD ENGAGEMENT INTO TOP FLANGE OF BASE IS 1/2".
4. AS REQUIRED TO MAINTAIN +0/-1/16" BELOW GRADE FAA INSTALLATION TOLERANCE. A MAXIMUM OF THREE SPACER RINGS MAY BE STACKED TOGETHER.



JOINT DETAIL


IN-PAVEMENT FIXTURE
INSTALLATION L-850C
N.T.S.

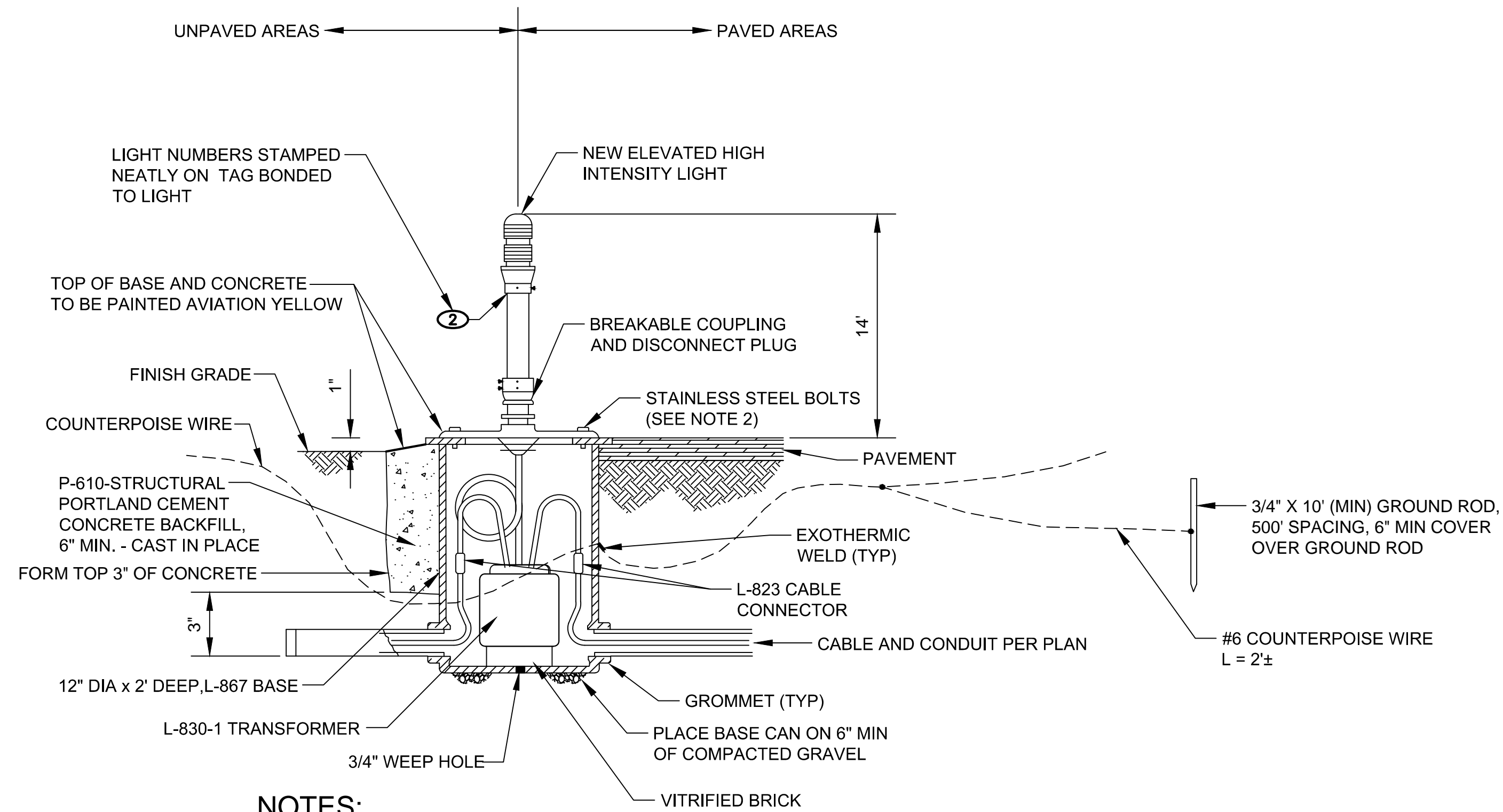
1
E-7



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	DRAWN BY: JLS		
DATE: APRIL 2016	CHECKED BY: JNR	LIGHTING DETAILS I	SHEET NO. 69 OF 80
PROJECT NO: 40228.008.03	SCALE: AS NOTED		

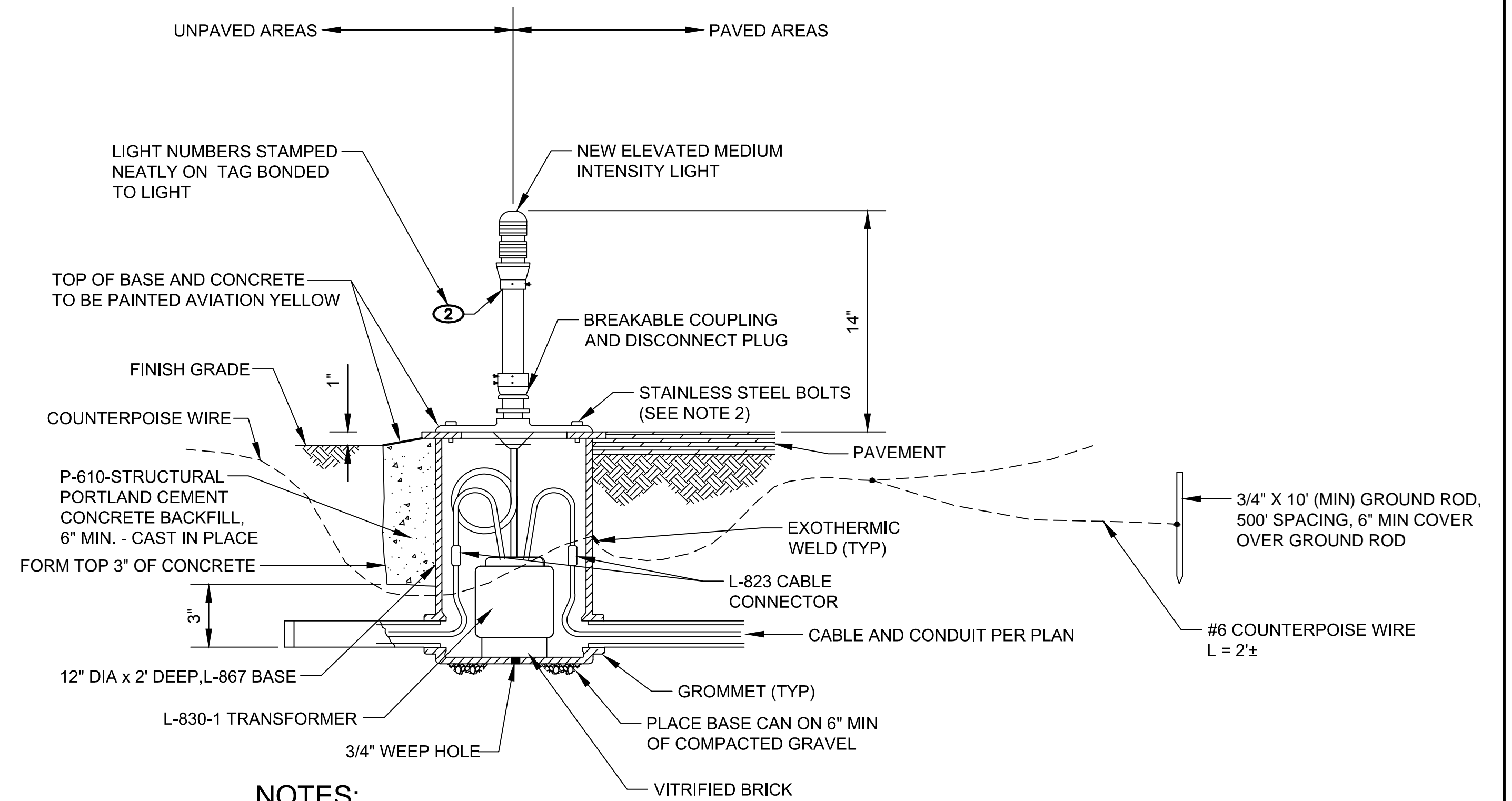


NOTES:

1. ALLOW 3' OF CONDUCTORS SLACK IN THE LIGHT BASE FROM EACH CABLE RUN.
2. COAT BOLTS WITH JET LUBE, OR EQUAL, DURING INSTALLATION. SS-30 MIL-A-907D THREAD LUBE COMPOUND JET LUBE INC. HOUSTON, TX. 77028.

HIGH INTENSITY BASE MOUNTED LIGHT
L-862, L-862E
N.T.S.

1
E-8

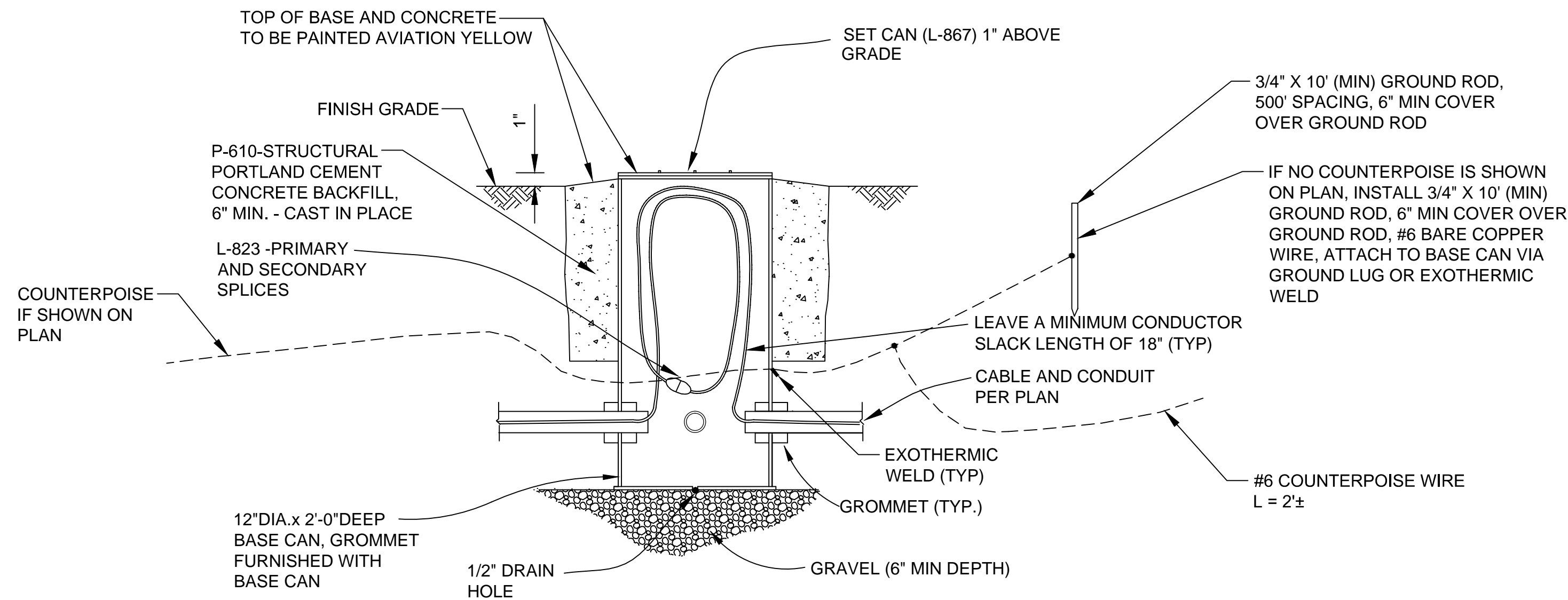


NOTES:

1. ALLOW 3' OF CONDUCTORS SLACK IN THE LIGHT BASE FROM EACH CABLE RUN.
2. COAT BOLTS WITH JET LUBE, OR EQUAL, DURING INSTALLATION. SS-30 MIL-A-907D THREAD LUBE COMPOUND JET LUBE INC. HOUSTON, TX. 77028.

MEDIUM INTENSITY BASE
MOUNTED LIGHT
N.T.S.

2
E-8



L-867 JUNCTION BASE
CAN DETAIL
N.T.S.

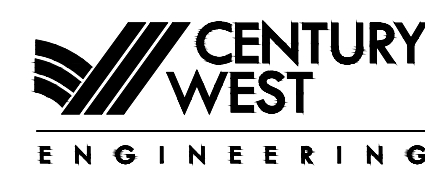
3
E-8

S:\Municipal\Projects\40228 City of McMinnville\008\03-CADD-Working Drawings\E-8 LIGHTING DETAILS 2.dwg



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DATE: APRIL 2016

PROJECT NO: 40228.008.03

DESIGNED BY: BFC
DRAWN BY: JLS
CHECKED BY: JNR
SCALE: AS NOTED

CITY OF MCMINNVILLE MCMINNVILLE MUNICIPAL AIRPORT RUNWAY 4-22 REHABILITATION PROJECT		DRAWING NO. E-8
LIGHTING DETAILS II		SHEET NO. 70 OF 80

S:\Municipal\Projects\40228 City of McMinnville\008\03\----CADD\----Working Drawings\E-9 GUIDANCE SIGN SCHEDULE.dwg

SIGN NUMBER	SHEET NUMBER	FACE	NEW SIGN MESSAGE	NEW SIGN COLORS	ALIGNMENT/STATION	OFFSET	LIGHTED
1	E-1	NORTH	A4 4	YELLOW ON BLACK / WHITE ON RED	TWY A4 3+62.32	46.12' LEFT	Y
		SOUTH		BLACK			
2	E-1	EAST	A4→	BLACK ON YELLOW	RWY 4-22 10+90.50	70.00' LEFT	Y
		WEST		BLACK			
3	E-1	EAST		BLACK	RWY 4-22 21+66.90	70.00' LEFT	Y
		WEST	←A3	BLACK ON YELLOW			
4	E-1	EAST	A3→	BLACK ON YELLOW	RWY 4-22 26+22.69	70.00' LEFT	Y
		WEST		BLACK			
5	E-1	NORTH	A3 22-4	YELLOW ON BLACK / WHITE ON RED	TWY A3 3+41.13	45.27' LEFT	Y
		SOUTH		BLACK			
6	E-2	EAST		BLACK	RWY 4-22 42+31.65	70.00' LEFT	Y
		WEST	←A2	BLACK ON YELLOW			
7	E-2	EAST		BLACK	RWY 4-22 43+07.22	70.00' RIGHT	Y
		WEST	D→	BLACK ON YELLOW			
8	E-2	NORTH	A2 22-4	YELLOW ON BLACK / WHITE ON RED	TWY A2 2+40.50	58.57' LEFT	Y
		SOUTH	A2	YELLOW ON BLACK			
9	E-2	EAST	A2→	BLACK ON YELLOW	RWY 4-22 44+66.65	70.00' LEFT	Y
		WEST		BLACK			
10	E-2	EAST	←D	BLACK ON YELLOW	RWY 4-22 44+89.82	70.00' RIGHT	Y
		WEST		BLACK			
11	E-3	EAST		BLACK	RWY 4-22 62+60.24	70.00' LEFT	Y
		WEST	←A1	BLACK ON YELLOW			
12	E-3	NORTH		BLACK	TWY A1 5+75.55	45.15' LEFT	Y
		SOUTH	←A1	BLACK ON YELLOW			
13	E-3	EAST	22	YELLOW ON BLACK	RWY 4-22 59+98.65	70.00' LEFT	Y
		WEST	17	WHITE ON RED			
14	E-3	EAST	4	WHITE ON BLACK	RWY 4-22 52+09.47	70.00' RIGHT	Y
		WEST	1	WHITE ON BLACK			
15	E-2	EAST	3	WHITE ON BLACK	RWY 4-22 42+09.50	70.00' RIGHT	Y
		WEST	2	WHITE ON BLACK			
16	E-2	EAST	2	WHITE ON BLACK	RWY 4-22 31+89.50	70.00' RIGHT	Y
		WEST	3	WHITE ON BLACK			
17	E-1	EAST	1	WHITE ON BLACK	RWY 4-22 22+09.50	70.00' RIGHT	Y
		WEST	4	WHITE ON BLACK			


GUIDANCE SIGN SCHEDULE

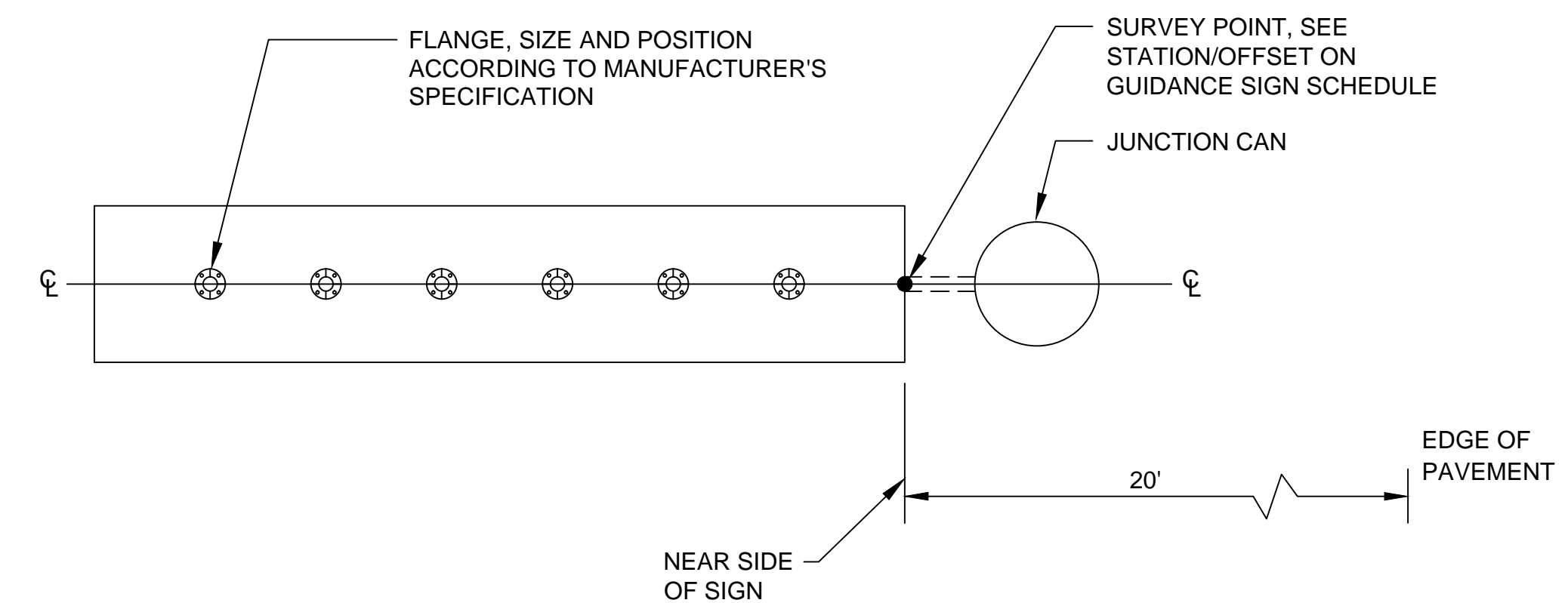
1
E-9



VERIFY SCALES
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 <div>PORTLAND OFFICE 5331 SW MACADAM AVE., #207 PORTLAND, OR 97239 503.419.2130 503.639.2710 FAX</div>	DESIGNED BY: BFC	CITY OF MCMINNVILLE MCMINNVILLE MUNICIPAL AIRPORT RUNWAY 4-22 REHABILITATION PROJECT	DRAWING NO. E-9
	DRAWN BY: JLS		
	CHECKED BY: JNR		
	SCALE: AS NOTED		
DATE: APRIL 2016	PROJECT NO: 40228.008.03	GUIDANCE SIGN SCHEDULE	SHEET NO. 71 OF 80



2
E-10

N.T.S.



N.T.S.




1. ALL REINFORCEMENT STEEL TO BE GRADE 60.

TYPICAL CROSS SECTION

A circular logo with a horizontal line through the center. The number '3' is positioned above the line, and the text 'E-10' is positioned below the line.

N.T.S.

 <p>CENTURY WEST</p> <hr/> <p>E N G I N E E R I N G</p>		PORTLAND OFFICE 5331 SW MACADAM AVE., #207 PORTLAND, OR 97239 503.419.2130 503.639.2710 FAX	DESIGNED BY: BFC
			DRAWN BY: JLS
			CHECKED BY: JNR
DATE: APRIL 2016	PROJECT NO: 40228.008.03	SCALE: AS NOTED	

DESIGNED BY:	BFC
DRAWN BY:	JLS
CHECKED BY:	JNR
SCALE:	AS NOTED

GUIDANCE SIGN DETAILS

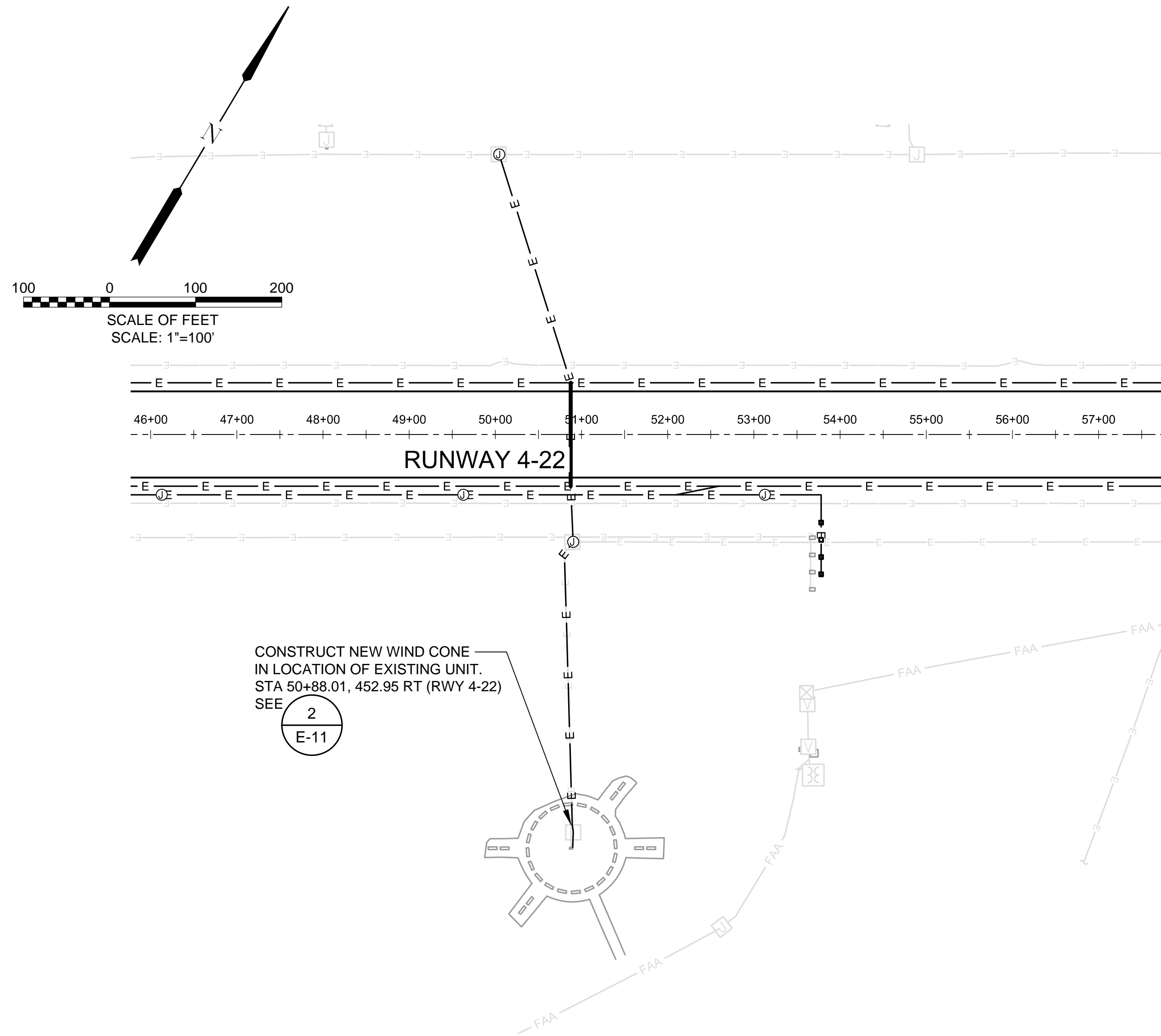
DRAWING NO.

E-10

SHEET NO.

72 OF 80

S:\Municipal\Projects\40228 City of McMinnville\008\03-CADD-Working Drawings\E-11 WINDCONE PLAN AND DETAILS.dwg



CONSTRUCT NEW WIND CONE
IN LOCATION OF EXISTING UNIT.
STA 50+88.01, 452.95 RT (RWY 4-22)
SEE

2
E-11

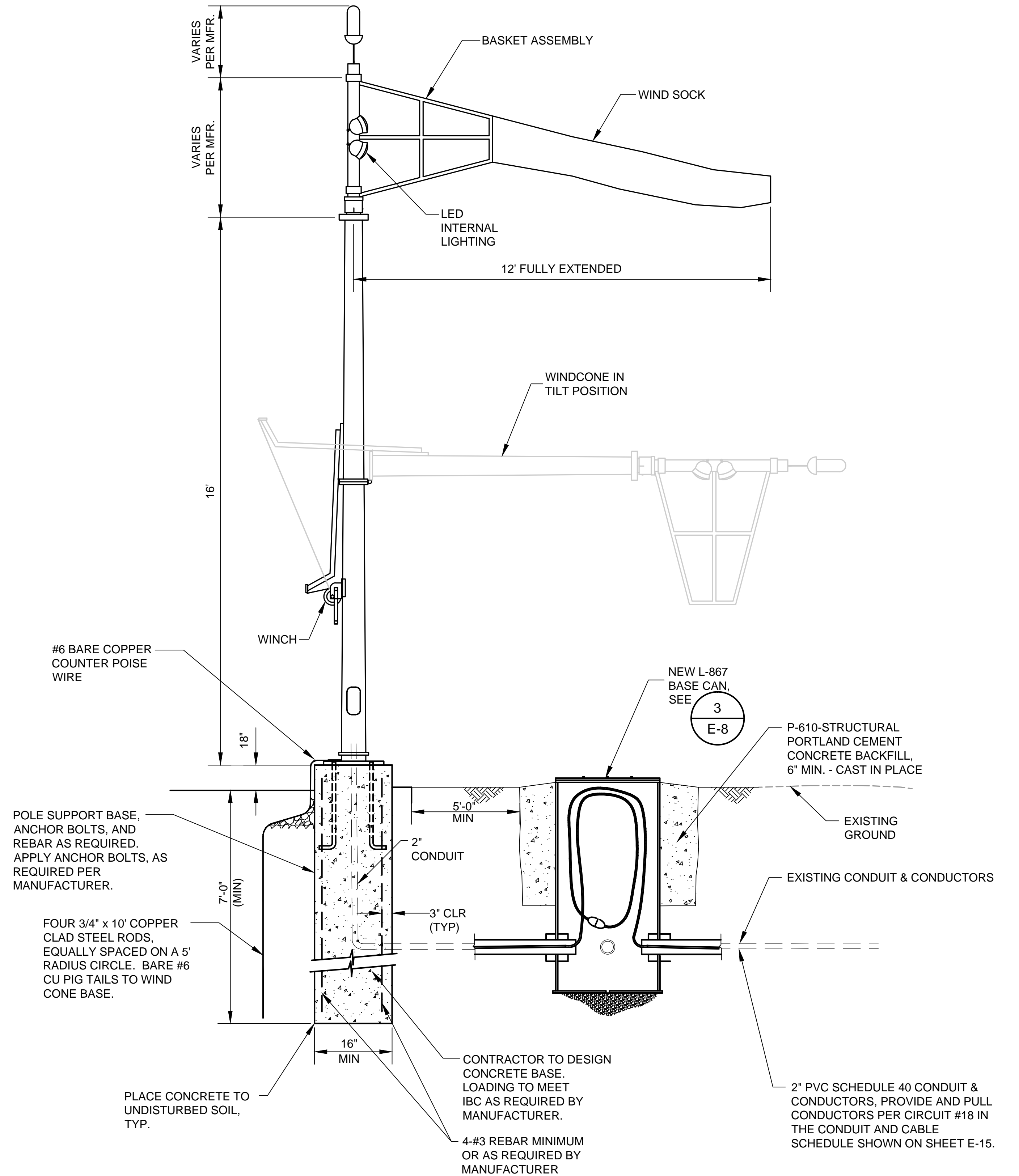
NOTE:

1. SEE E-15 FOR WIND CONE CONNECTION.

WINDCONE SITE PLAN

SCALE: 1" = 100'

1
E-11



L-807 WIND CONE ASSEMBLY

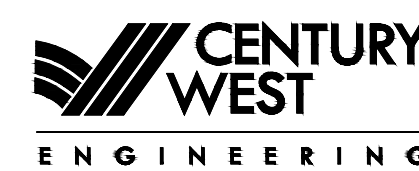
N.T.S.

2
E-11



VERIFY SCALES
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DATE: APRIL 2016

PROJECT NO: 40228.008.03

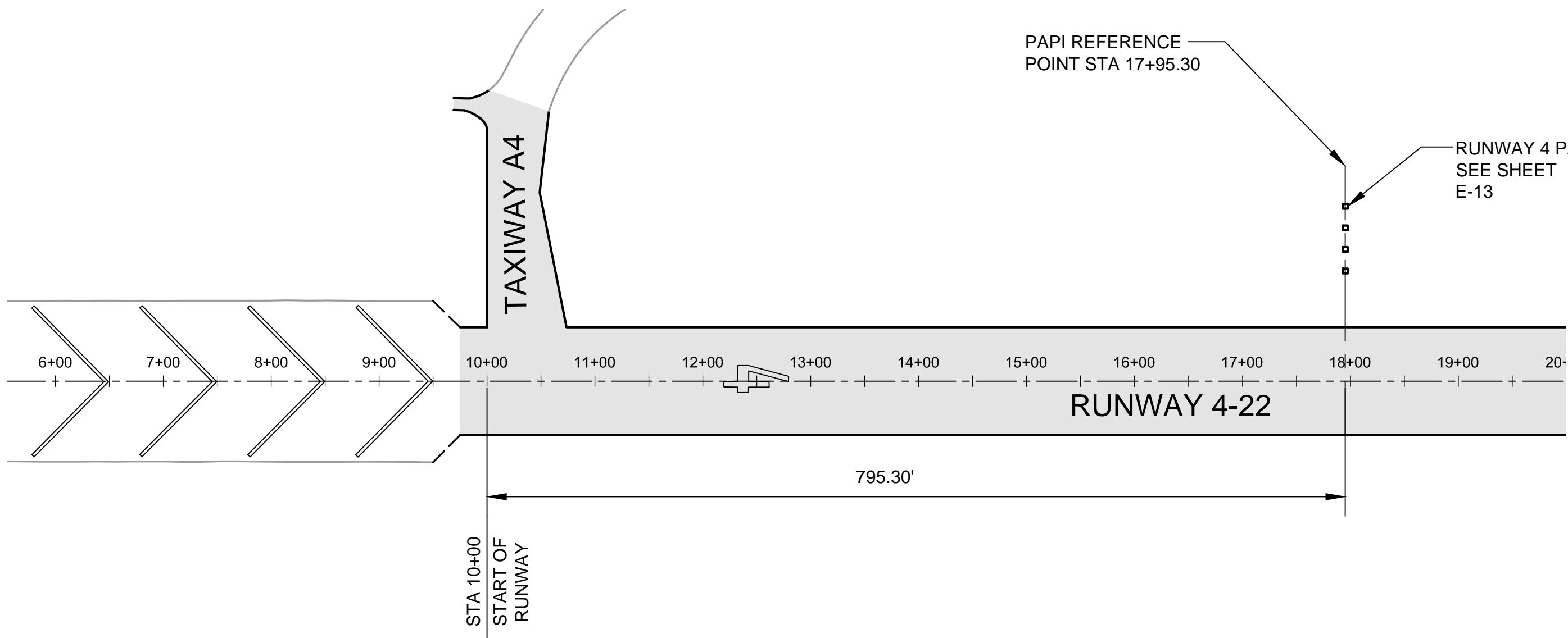
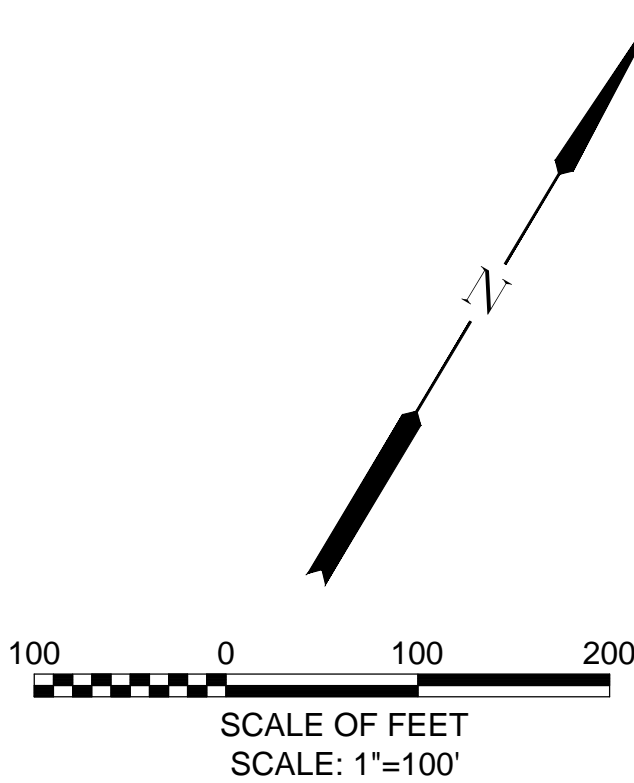
DESIGNED BY: BFC
DRAWN BY: JLS
CHECKED BY: JNR
SCALE: AS NOTED

CITY OF MCMINNVILLE
MCMINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

WINDCONE PLAN AND DETAILS

DRAWING NO. E-11
SHEET NO. 73 OF 80

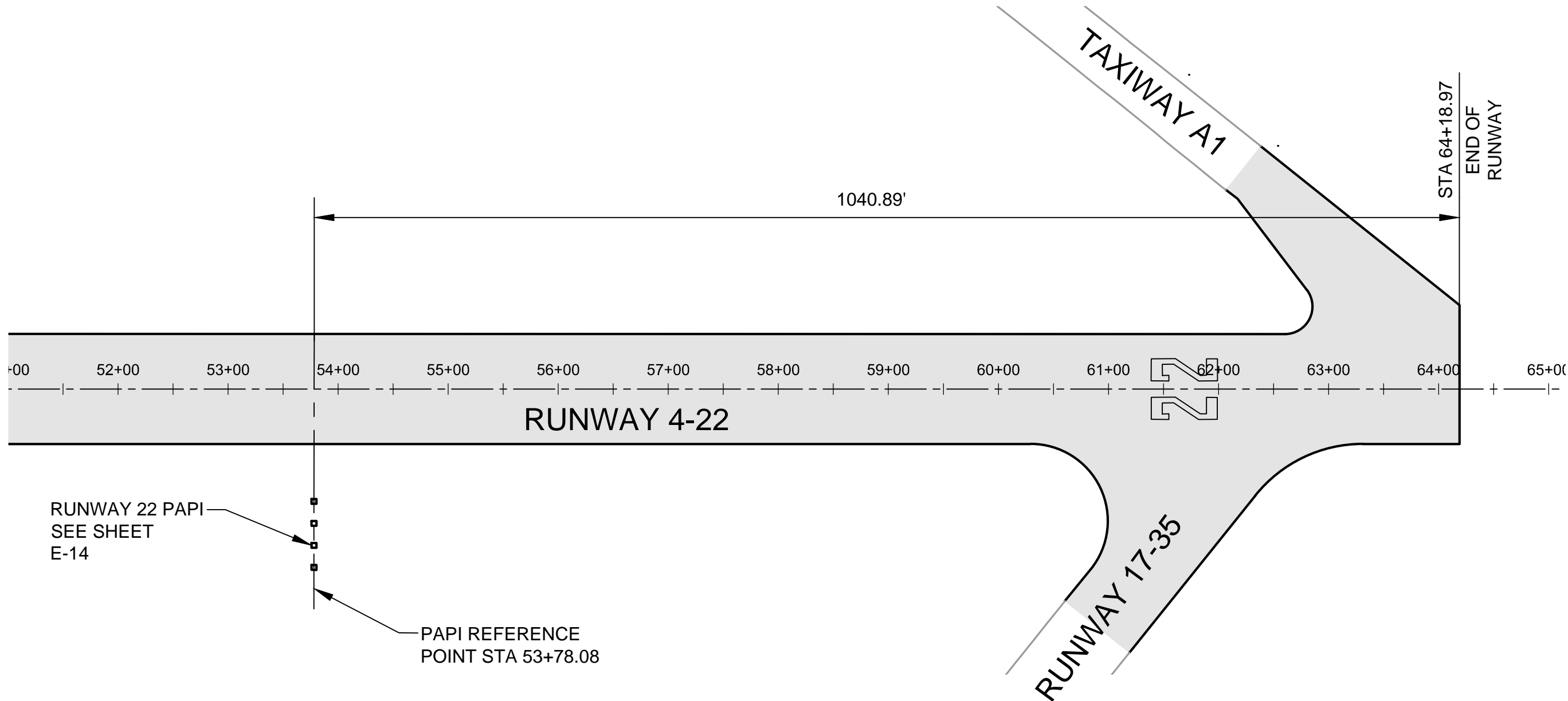
S:\Municipal\Projects\40228 City of McMinnville\008\03\----CADD\----Working Drawings\E-12 PAPI LAYOUT PLAN.dwg



RUNWAY 4 PAPI LAYOUT PLAN

SCALE: 1"=100'

1
E-12



RUNWAY 22 PAPI LAYOUT PLAN


SCALE: 1"=100'

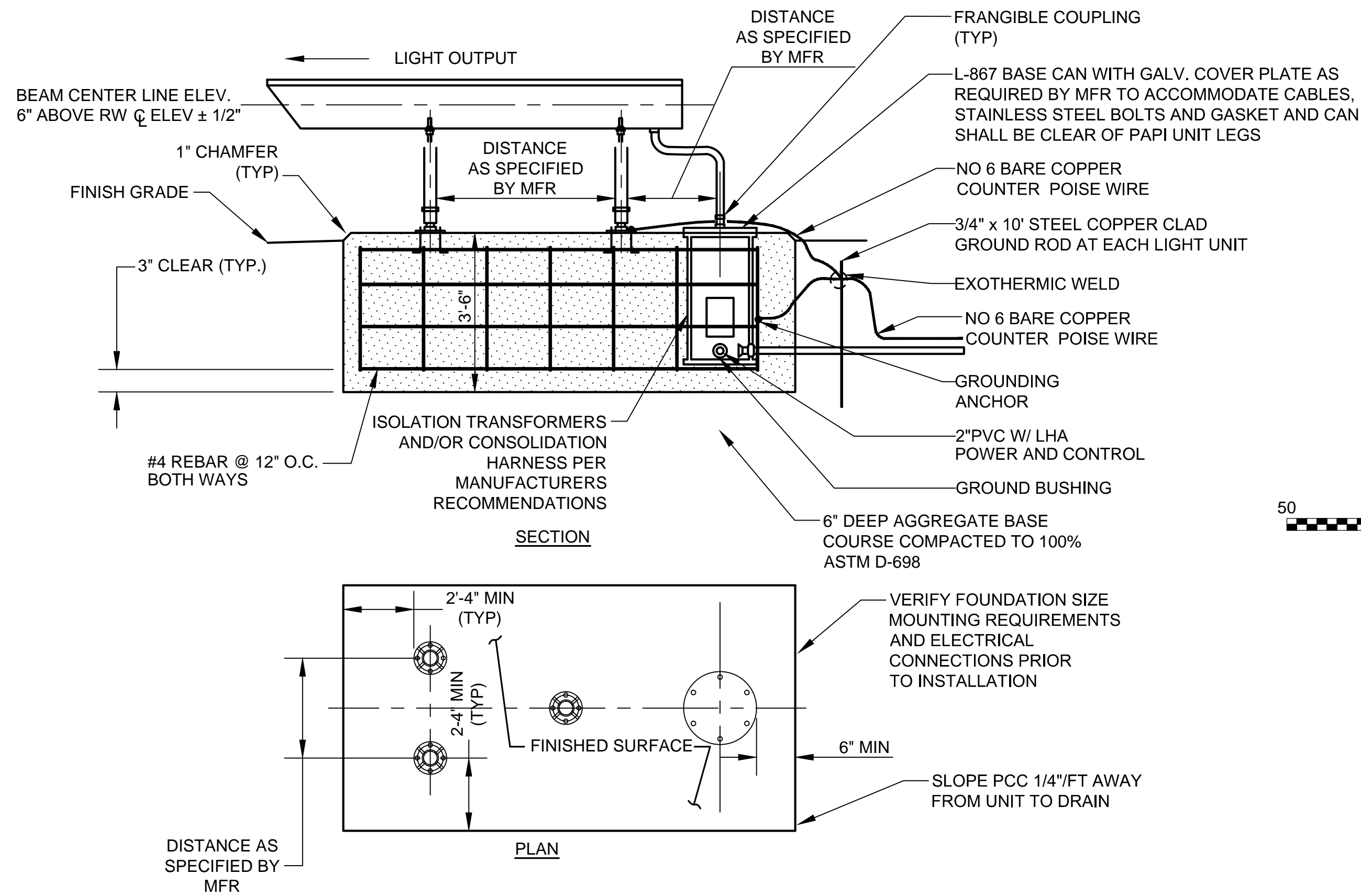
2
E-12



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	DRAWN BY: BMV		
	CHECKED BY: JNR	PAPI LAYOUT PLAN	SHEET NO. 74 OF 80
DATE: APRIL 2016	PROJECT NO: 40228.008.03	SCALE: AS NOTED	



SIDE ELEVATION-TYPICAL FOUNDATION AND
LIGHT HOUSING ASSEMBLY
N.T.S.

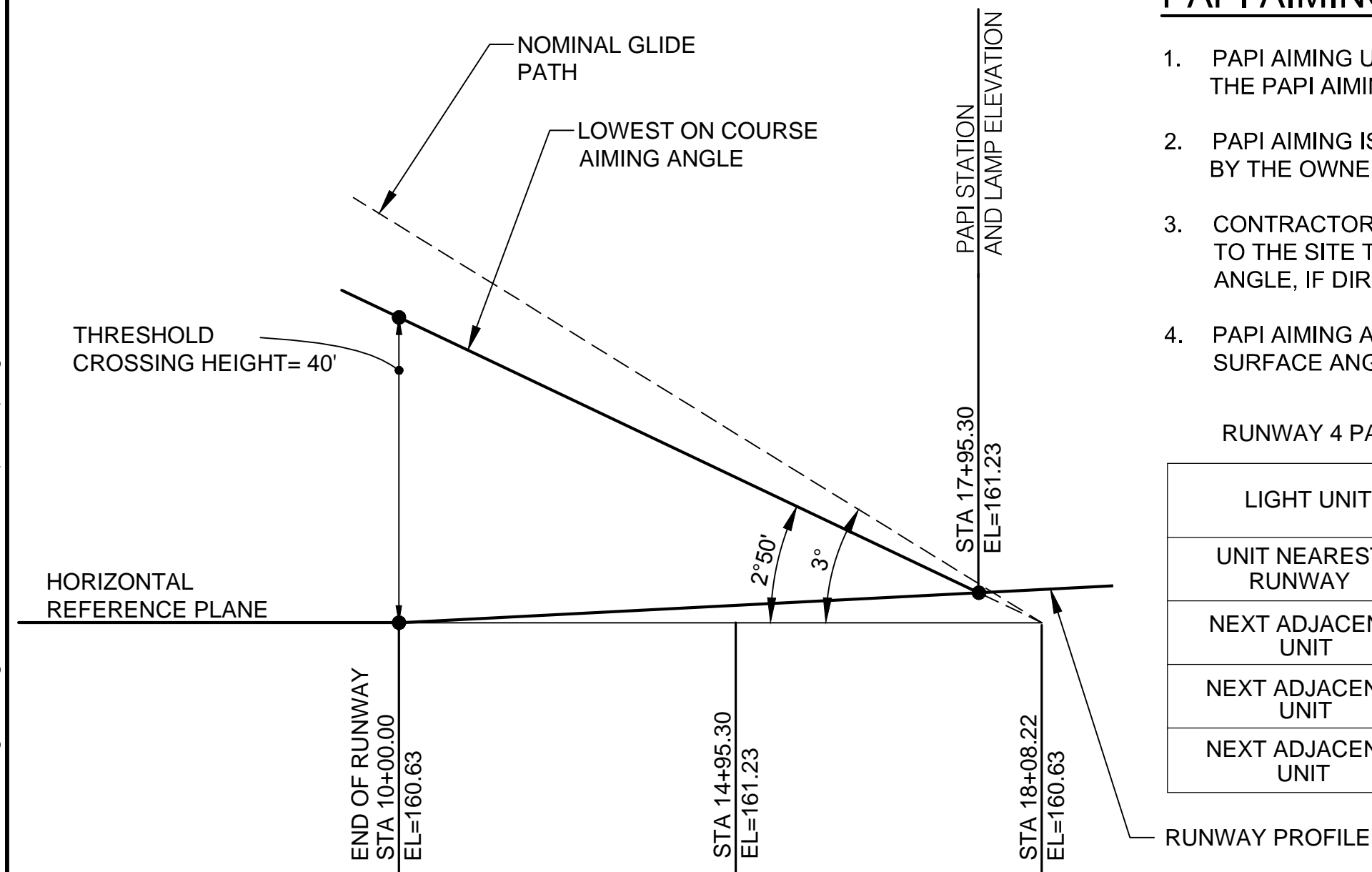
1
E-13

PAPI AIMING NOTES:

1. PAPI AIMING UNIT PRICE TO INCLUDE INITIAL AIMING AT THE PAPI AIMING ANGLE SHOWN.
2. PAPI AIMING IS NOT COMPLETE UNTIL APPROVED BY THE OWNER AND FAA, AFTER FAA FLIGHT CHECK.
3. CONTRACTOR SHALL MAKE UP TO 2 ADDITIONAL TRIPS TO THE SITE TO MAKE ADJUSTMENTS TO THE AIMING ANGLE, IF DIRECTED BY THE ENGINEER.
4. PAPI AIMING ANGLE AND OBSTACLE CLEARANCE SURFACE ANGLES ARE MEASURED TO HORIZONTAL.

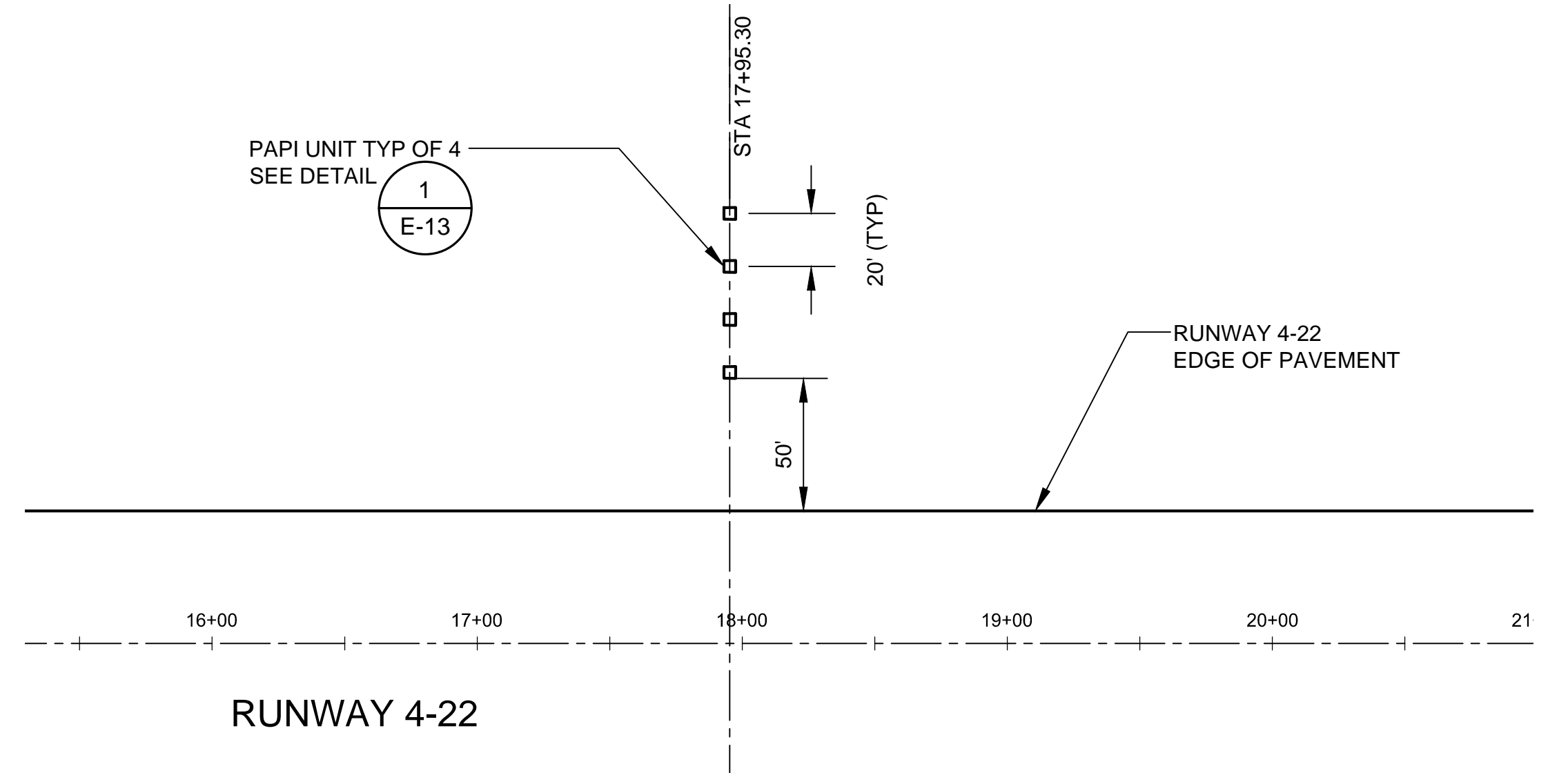
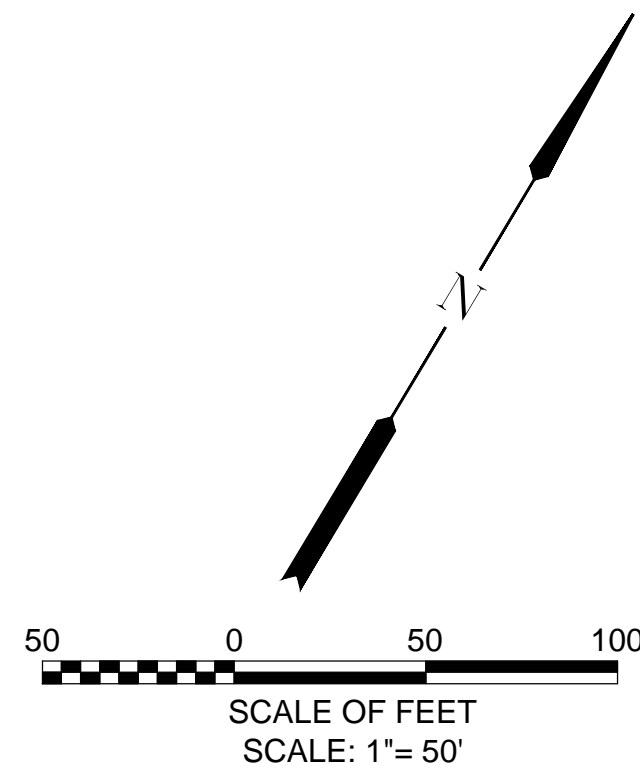
RUNWAY 4 PAPI UNIT AIMING (4 BOX)

LIGHT UNIT	AIMING ANGLE
UNIT NEAREST RUNWAY	3°30'
NEXT ADJACENT UNIT	3°10'
NEXT ADJACENT UNIT	2°50'
NEXT ADJACENT UNIT	2°30'



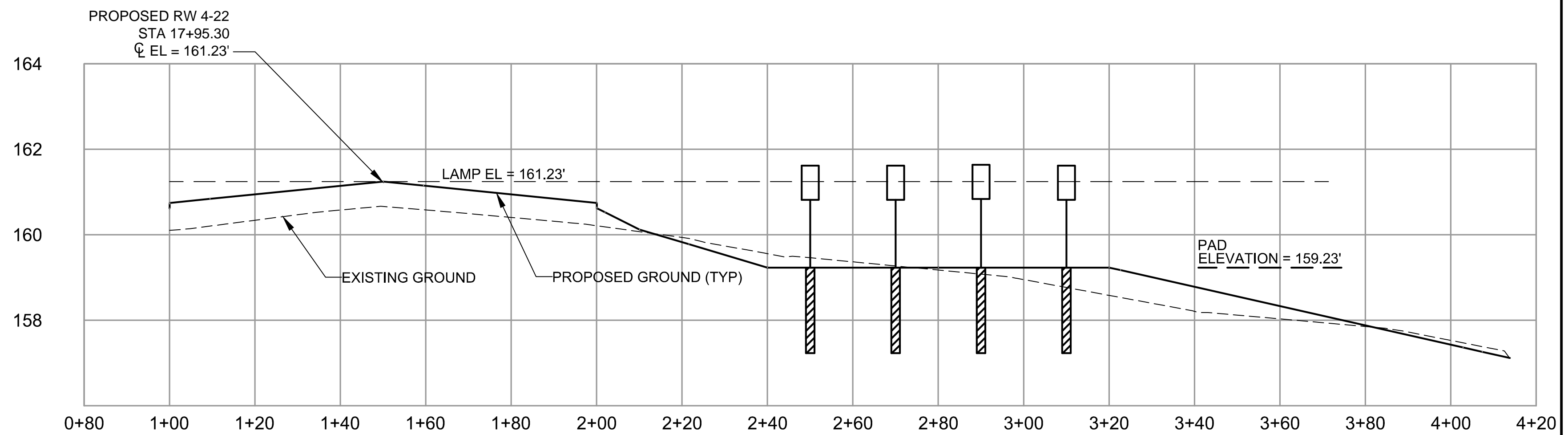
RUNWAY 4 PAPI AIMING
PROFILE
N.T.S.

3
E-13



RUNWAY 4 PAPI PLAN VIEW
SCALE: 1"= 50'

2
E-13



RUNWAY 4 PAPI CROSS SECTION
STA 17+95.30
SCALE: 1"=20' HORIZ
1"=2' VERT

4
E-13



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CENTURY WEST ENGINEERING

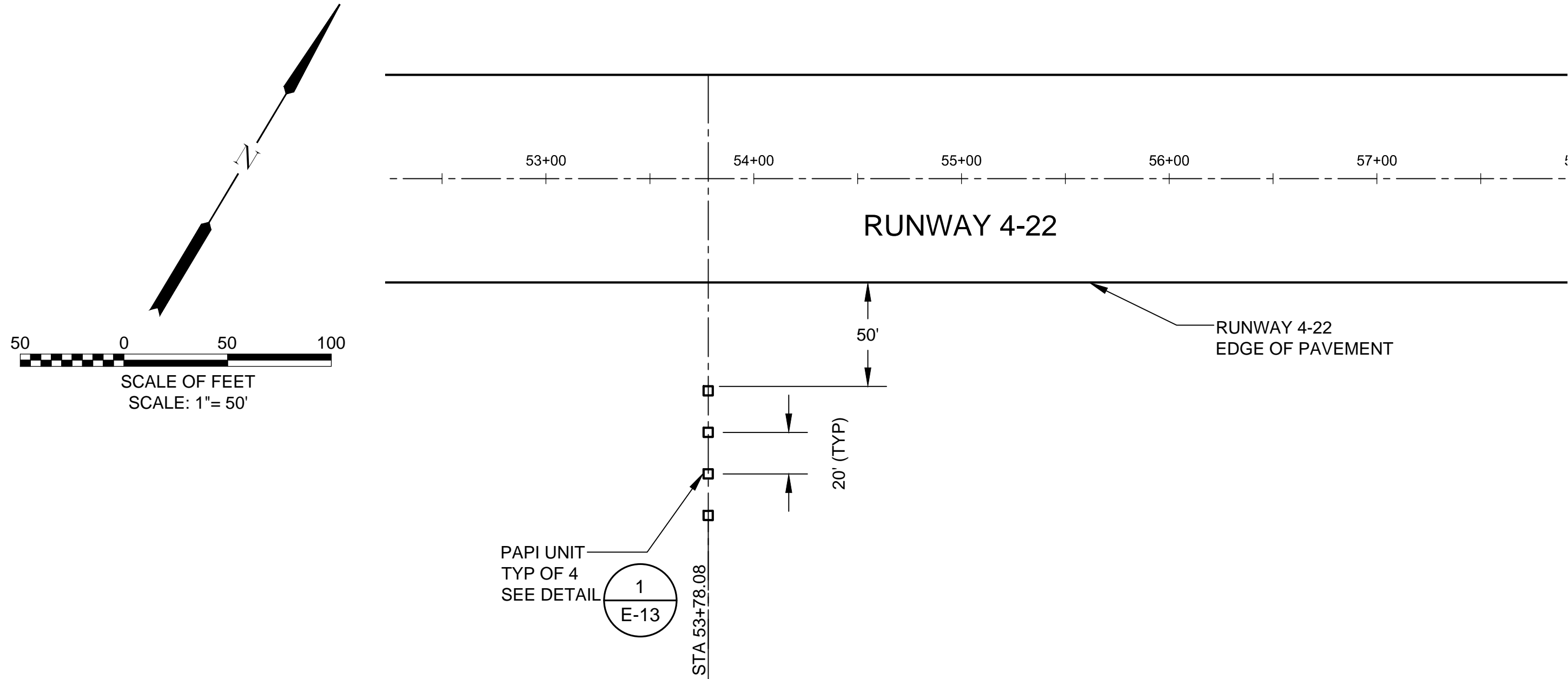
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503.639.2710 FAX

DATE: APRIL 2016 PROJECT NO: 40228.008.03

DESIGNED BY: BFC
DRAWN BY: BMV
CHECKED BY: JNR
SCALE: AS NOTED

CITY OF MCMINNVILLE MCMINNVILLE MUNICIPAL AIRPORT RUNWAY 4-22 REHABILITATION PROJECT		DRAWING NO. E-13
RUNWAY 4 PAPI DETAILS		SHEET NO. 75 OF 80

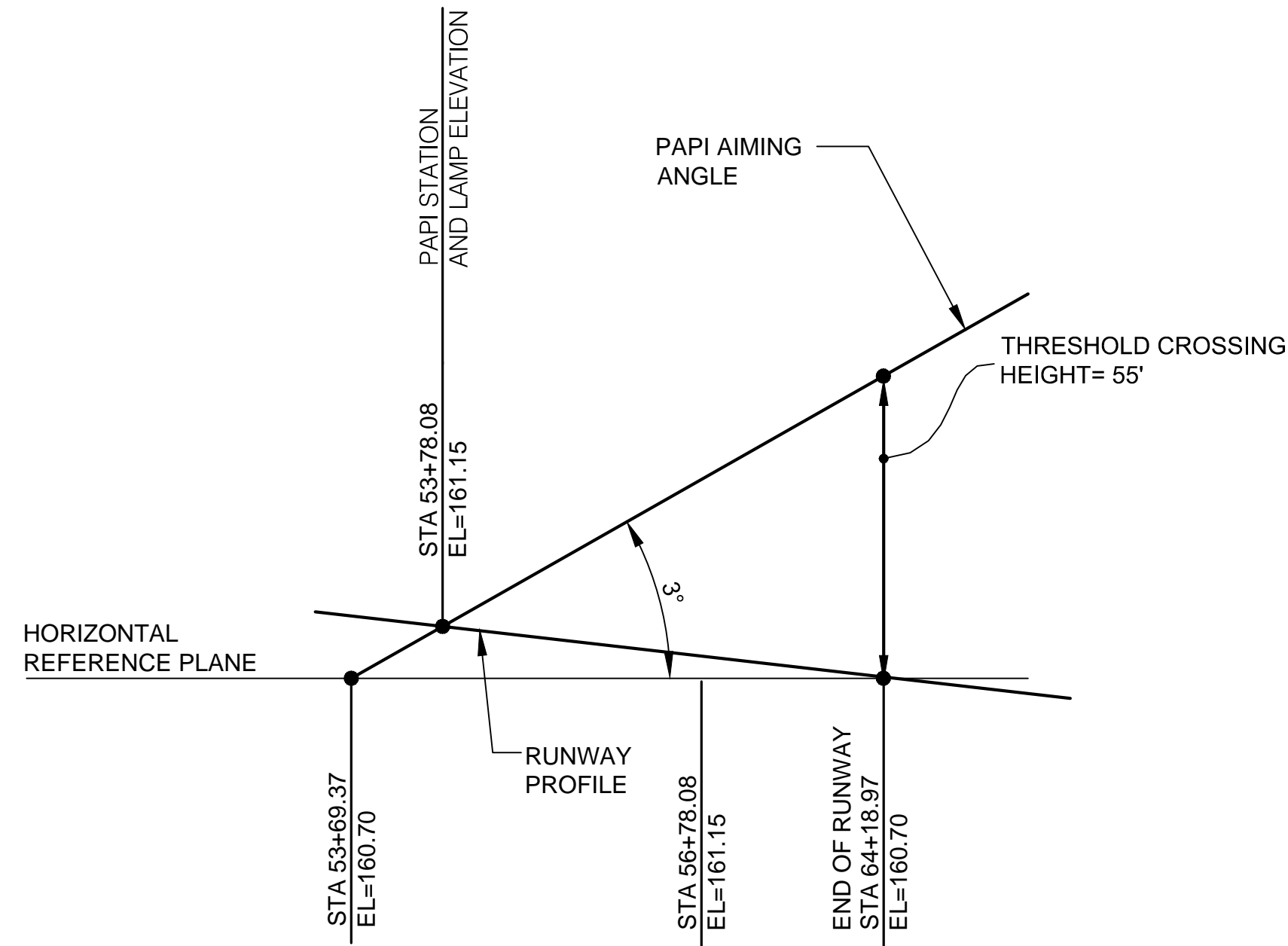
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Runway 22 PAPI Plan View

Scale: 1" = 50'

1
E-14



Runway 22 PAPI Aiming Profile

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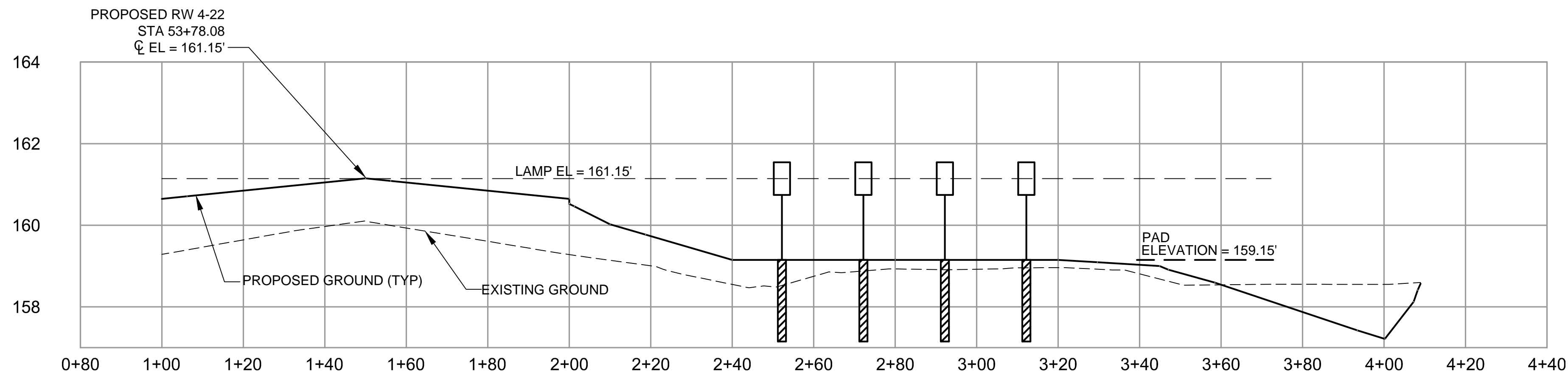
2
E-14

PAPI Aiming Notes:

1. PAPI Aiming Unit Price to include initial aiming at the PAPI Aiming Angle shown.
2. PAPI Aiming is not complete until approved by the owner and FAA, after FAA flight check.
3. Contractor shall make up to 2 additional trips to the site to make adjustments to the aiming angle, if directed by the engineer.
4. PAPI Aiming Angle and Obstacle Clearance Surface Angles are measured to horizontal.

Runway 22 PAPI Unit Aiming (4 Box)

Light Unit	Aiming Angle
Unit Nearest Runway	3°30'
Next Adjacent Unit	3°10'
Next Adjacent Unit	2°50'
Next Adjacent Unit	2°30'

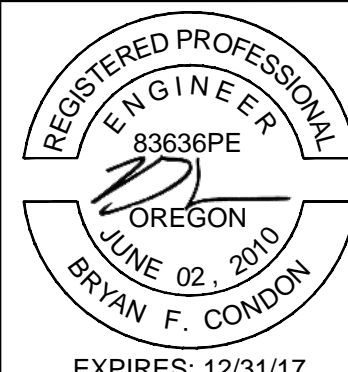


Runway 22 PAPI Cross Section

STA 53+78.08

Scale: 1" = 20' Horiz
1" = 2' Vert

3
E-14



VERIFY SCALES
Bar is one inch on original drawing.
0" 1"
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NO.	DATE	BY	APPR	REVISIONS

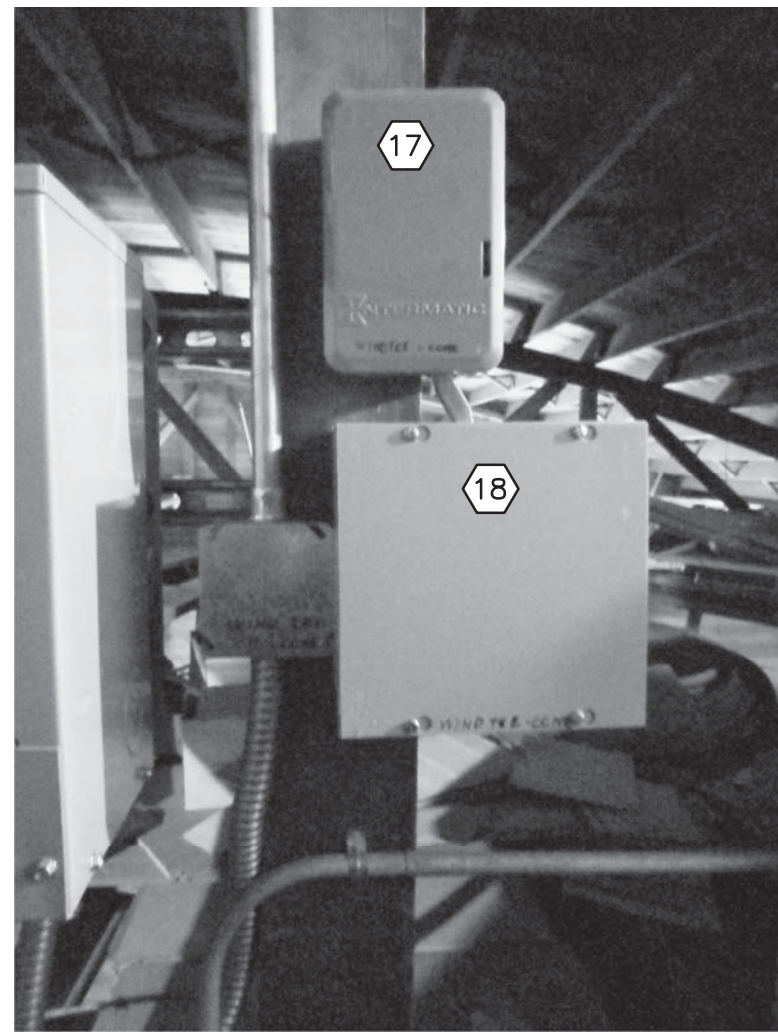
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503.419.2130
503.639.2710 FAX

DATE: APRIL 2016

PROJECT NO: 40228.008.03

DESIGNED BY: BFC
DRAWN BY: BMV
CHECKED BY: JNR
SCALE: AS NOTED

CITY OF MCMINNVILLE MCMINNVILLE MUNICIPAL AIRPORT RUNWAY 4-22 REHABILITATION PROJECT	DRAWING NO. E-14
	SHEET NO. 76 OF 80

[illegible]

- A. CONTRACTOR SHALL DEMOLISH AND DISPOSE OF ALL EXISTING ELECTRICAL EQUIPMENT IN THE RUNWAY LIGHTING ELECTRICAL ROOM, UNLESS OTHERWISE NOTED. THE CONTRACTOR HAS THE OPTION TO RE-USE THE EXISTING WIRE GUTTER ON THE WEST WALL, OTHERWISE ALL ELECTRICAL RUNWAY LIGHTING EQUIPMENT SHALL BE NEW.
- B. CONTRACTOR SHALL RE-USE EXISTING RACEWAY FROM ELECTRICAL ROOM OUT TO RUNWAY.
- C. CONTRACTOR SHALL ROUTE CIRCUITS THRU WIRE GUTTER WHERE APPLICABLE.

- 1 EXISTING 25KVA SERVICE TRANSFORMER.
- 2 EXISTING METER BASE.
- 3 NEW RADIO ANTENNA.
- 4 EXISTING PLYWOOD BACKBOARD.
- 5 NEW PHOTOCELL, MOUNT SO THAT SENSOR FACES NORTH.
- 6 NEW 120/240V, 225A RATED PANEL BOARD.
- 7 EXISTING WIRE DUCT, 6"Hx48"Wx6"D.
- 8 NEW L-854 RADIO CONTROLLER.
- 9 NEW PAPI LIGHTING CONTROL PANEL, SEE SHEET E-16 FOR CONTROL SCHEMATIC.
- 10 NEW 4KW REGULATOR FOR PAPI CURRENT LOOP. CONTROL WIRES FOR CIRCUITS #8 AND #9 CAN BE COMBINED IN SAME CONDUIT FROM WIRE GUTTER TO REGULATOR.
- 11 NEW 20KW REGULATOR FOR RUNWAY LIGHTING CURRENT LOOP.
- 12 GROUND ROD, TYPICAL OF 2.
- 13 EXISTING STORAGE SHELVING.
- 14 EXISTING DESK.
- 15 RECONNECT EXISTING LIGHTING AND RECEPTACLE CIRCUIT TO NEW PANELBOARD.
- 16 BOND EXISTING SERVICE GROUND TO NEW SERVICE GROUND CONDUCTOR.
- 17 EXISTING WIND CONE/TEE TIME CLOCK. CONTRACTOR SHALL SALVAGE TIME CLOCK AND RETURN TO OWNER. PROVIDE NEW 10"Hx10"Wx4"D NEMA 1 ENCLOSURE WITH PHOTOCELL BYPASS SWITCH FOR NEW PHOTOCELL CONTROL SHOWN IN DETAIL 3, THIS SHEET..
- 18 EXISTING WIND CONE/TEE LIGHTING CONTACTOR.
- 19 EXISTING 120/240V WIND CONE/TEE BRANCH CIRCUIT CONDUCTORS. CONTRACTOR SHALL FIELD VERIFY CONDUCTOR INTEGRITY AND PROVIDE NEW CONDUCTORS IF NECESSARY.
- 20 NEW NEMA 1 WIND CONE/TEE LIGHTING CONTROL ENCLOSURE. LOCATE NEW ENCLOSURE ABOVE EXISTING LIGHTING CONTACTOR ENCLOSURE.
- 21 NEW WIND CONE/TEE PHOTOCELL. CONTRACTOR SHALL PROVIDE #12 AWG CONDUCTOR AND 3/4" CONDUIT FROM LIGHTING CONTROL ENCLOSURE TO PHOTOCELL. THIS CIRCUIT IS REFERRED TO AS CIRCUIT #17 ON THE CONDUIT AND CABLE SCHEDULE. FIELD COORDINATE CONDUIT ROUTING. PHOTOCELL SHALL BE LOCATED ON EXTERIOR NORTHEAST WALL OF PILOT LOUNGE BUILDING. PHOTOCELL SHALL BE MOUNTED SO THAT PHOTO SENSOR FACES NORTH.
- 22 EXISTING WIRING TO EXISTING 120/240V-480V WIND CONE/TEE BOOST TRANSFORMER.
- 23 NEW PAPI SERIES CURRENT LOOP CUTOFF PLUG.
- 24 NEW RUNWAY LIGHTING SERIES CURRENT LOOP CUTOFF PLUG.
- 25 COMBINE INDICATED CIRCUITS IN SINGLE 2" CONDUIT BETWEEN EQUIPMENT LOCATED DIRECTLY ABOVE WIRE DUCT AND WIRE DUCT. USE CONDUIT SIZES IDENTIFIED IN THE CONDUIT & CABLE SCHEDULE FROM WIRE DUCT TO INDIVIDUAL DEVICES.

(E-15) NOT TO SCALE

CKT. NUMBER	COND. SIZE	CONDUCTORS	FROM	TO
1	----	RE-USE EXISTING CONDUCTORS	METER BASE	PANELBOARD "A"
2	----	RE-USE EXISTING CONDUCTORS	PANELBOARD "A"	LIGHTS & RECEPTACLES (EXISTING)
3	1"	(2) #12 AWG, (1) #12 GND	PANELBOARD "A"	NEW RADIO CONTROLLER
4	1"	(2) #12 AWG, (1) #12 GND	PANELBOARD "A"	NEW PAPI LIGHTING CONTROL PANEL
5	1"	(2) #1 AWG & (1) #6 GND	PANELBOARD "A"	NEW RUNWAY 20KV REGULATOR
6	1"	(2) #10 AWG & (1) #12 GND	PANELBOARD "A"	NEW PAPI 4KW REGULATOR
7	1"	(1) #12 AWG & (1) #12 GND	NEW PAPI LIGHTING CONTROL PANEL	NEW RADIO CONTROLLER
8	1"	(4) #12 AWG & (1) #12 GND	NEW PAPI LIGHTING CONTROL PANEL	NEW PAPI 4KW REGULATOR
9	1"	(3) #12 AWG & (1) #12 GND	NEW RADIO CONTROLLER	NEW PAPI 4KW REGULATOR
10	1"	(4) #12 AWG & (1) #12 GND	NEW RADIO CONTROLLER	NEW RUNWAY 20KV REGULATOR
11	2"	#8 AWG, 5KV UNSHIELDED CABLE	NEW PAPI 4KW REGULATOR	NEW PAPI SERIES CIRCUIT CUT-OUT PLUG
12	2"	#8 AWG, 5KV UNSHIELDED CABLE	NEW RUNWAY 20KV REGULATOR	NEW RUNWAY SERIES CIRCUIT CUT-OUT PLUG
13	----	RE-USE EXISTING 5KV CABLES	NEW PAPI SERIES CIRCUIT CUT-OUT PLUG	NEW PAPI SERIES LOOP CIRCUIT
14	----	#8 AWG, 5KV UNSHIELDED CABLE	NEW RUNWAY SERIES CIRCUIT CUT-OUT PLUG	NEW RUNWAY SERIES LOOP CIRCUIT
15	----	RADIO MFR ANTENNA CABLE	NEW RADIO CONTROLLER	NEW RADIO REMOTE ANTENNA
16	3/4"	(3) #12 AWG, (1) #12 GND	NEW PAPI LIGHTING CONTROL PANEL	NEW PAPI CONTROL PHOTOCELL
17	3/4"	(3) #12 AWG & (1) #12 GND	NEW WIND CONE/TEE LIGHTING CONTROL PANEL	NEW WIND CONE/TEE CONTROL PHOTOCELL
18	----	(2) #4 AWG & (1) #4 GND	EXISTING WIND CONE/TEE BOOST TRANSFORMER (PILOT LOUNGE UPPER HALLWAY)	NEW RUNWAY JUNCTION BASE CAN (NEAR TAXIWAY A, STA 50+05)
19	2"	(2) #4 AWG & (1) #4 GND	NEW RUNWAY JUNCTION BASE CAN (NEAR TAXIWAY A, STA 50+05)	NEW RUNWAY JUNCTION BASE CAN (SOUTH OF RUNWAY, STA 50+85)
20	----	(2) #4 AWG & (1) #4 GND	NEW RUNWAY JUNCTION BASE CAN (SOUTH OF RUNWAY, STA 50+85)	EXISTING WIND CONE/TEE BUCK TRANSFORMER
21	2"	(2) #12 AWG & (1) #12 GND	EXISTING WIND CONE/TEE BUCK TRANSFORMER SECONDARY BRANCH CIRCUIT BASE CAN	NEW WIND CONE

1. CONDUIT SIZES SHALL "----" SIGNIFY THAT EXISTING CONDUIT IS TO BE RE-USED, OR THAT NO CONDUIT IS REQUIRED.

2. ALL CIRCUITS SHALL BE FIELD COORDINATED.

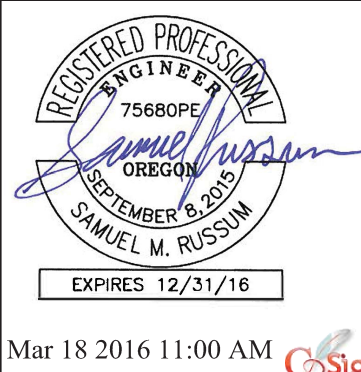
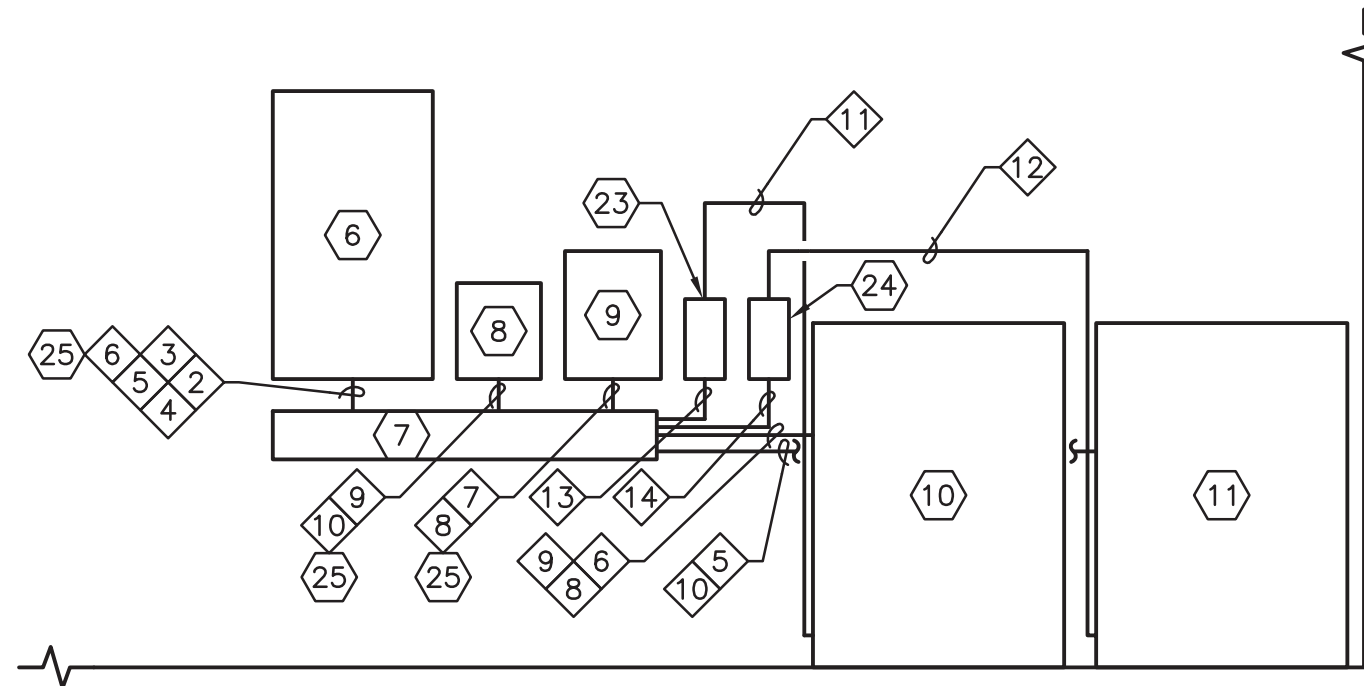
3. CURRENT LOOP CIRCUITS ARE ROUTED IN NEW AND EXISTING CONDUIT AS NOTED THROUGHOUT THE ELECTRICAL DRAWINGS.


4. MANDREL ALL RE-USED CONDUIT WHERE NEW CONDUCTORS ARE PULLED IMMEDIATELY PRIOR TO INSTALLATION OF NEW CONDUCTORS.

(E-15) SCALE: 1/2" = 1'-0"



(E-15) SCALE: 1/2" = 1'-0"



VERIFY SCALES
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0"  1"
IF NOT ONE INCH ON
THIS SHEET, ADJUST
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SCALE:
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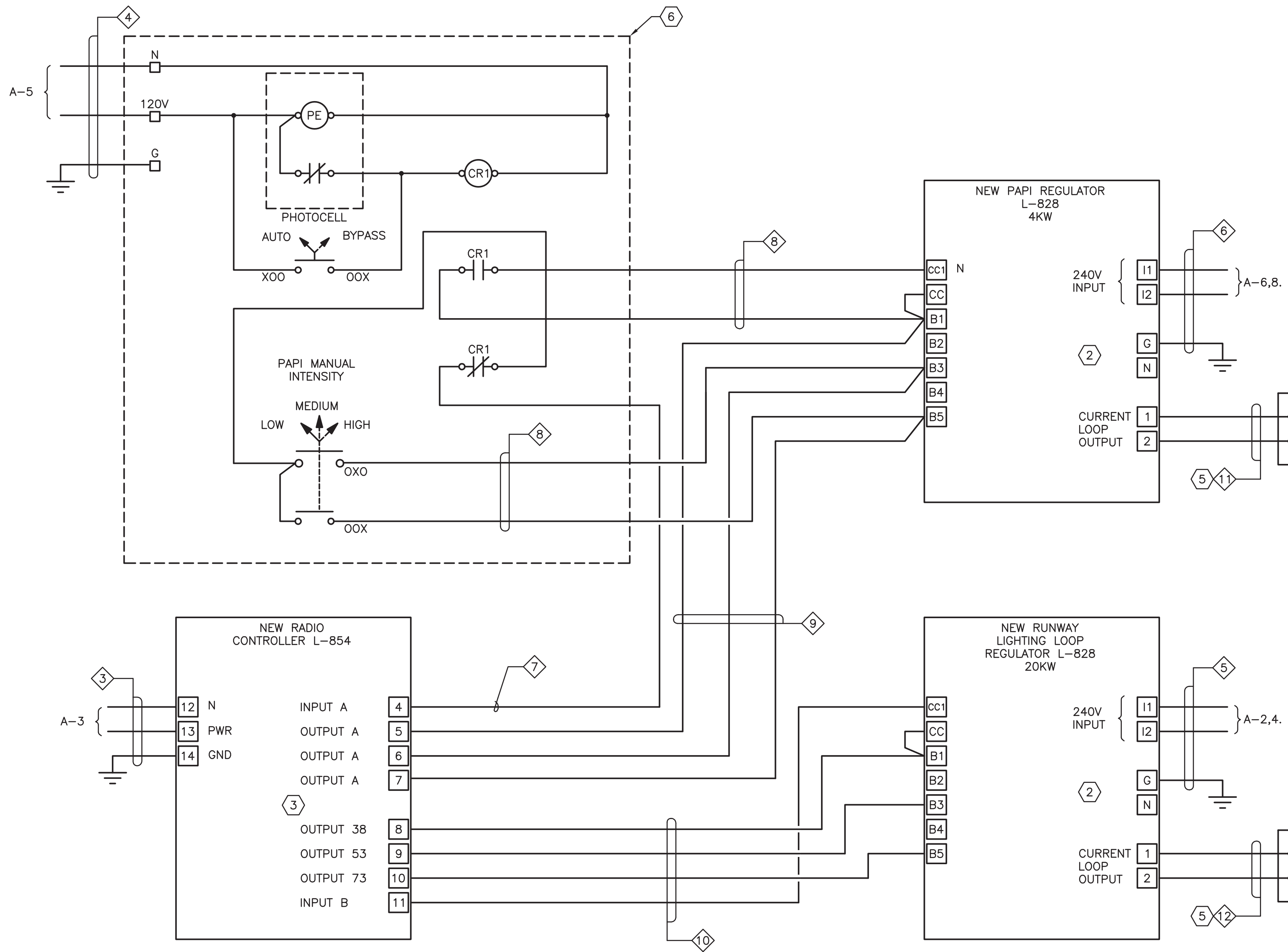
CITY OF MC MINNVILLE
MC MINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

ELECTRICAL ONE-LINE DIAGRAM AND ELECTRICAL ROOM LAYOUT

77 OF 80



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1 RUNWAY LIGHTING CONTROL SCHEMATIC
E-16 NOT TO SCALE

LEGEND

- L-861T TAXIWAY LIGHTS (NEW)
- L-861E THRESHOLD LIGHTS (NEW)
- L-861 RUNWAY EDGE LIGHTS (NEW)
- SERIES ISOLATION TRANSFORMER
L830-1, 30/45 WATT, 6.6 AMP (E)
- SERIES ISOLATION TRANSFORMER
L830-1, 30/45 WATT, 6.6 AMP (NEW)
- L-861T TAXIWAY LIGHTS WITH BASE CAN (NEW)
- L-861E THRESHOLD LIGHTS WITH BASE CAN (NEW)
- L-861 RUNWAY EDGE LIGHTS WITH BASE CAN (NEW)
- L-850C INSET RUNWAY EDGE LIGHTS WITH BASE CAN (NEW)
- GUIDANCE SIGN (NEW)
- GUIDANCE SIGN (E)
- 148+78± L (E) APPROXIMATE LOCATION: STATION 148 PLUS 78 FEET, LEFT SIDE OF RUNWAY LOOKING EAST. EXISTING

GENERAL NOTES

- A. CONTRACTOR SHALL FIELD VERIFY INTEGRITY OF EXISTING CURRENT LOOP CONDUIT HOME RUNS FOR RE-USE. THIS INCLUDES ALL CONDUIT ROUTED BETWEEN THE EXISTING RUNWAY AND THE EXISTING ELECTRICAL ROOM IN HANGER A.
- B. RADIO CONTROL OPERATION OF LIGHTS SHALL OPERATE AS FOLLOWS:
DAY TIME
PAPI ALWAYS ON AT MANUALLY SET INTENSITY.
3-CLICKS: LOW INTENSITY RUNWAY LIGHTS ON, 10% BRIGHTNESS.
5-CLICKS: MEDIUM INTENSITY RUNWAY LIGHTS ON, 30% BRIGHTNESS.
7-CLICKS: HIGH INTENSITY RUNWAY LIGHTS ON, 100% BRIGHTNESS.
NIGHT TIME:
3-CLICKS: LOW INTENSITY RUNWAY AND PAPI LIGHTS ON, 10% BRIGHTNESS.
5-CLICKS: MEDIUM INTENSITY RUNWAY AND PAPI LIGHTS ON, 30% BRIGHTNESS.
7-CLICKS: HIGH INTENSITY RUNWAY AND PAPI LIGHTS ON, 100% BRIGHTNESS.
RADIO CONTROLLER SHALL BE CONFIGURED TO TURN LIGHTS OFF AFTER 15 MINUTE TIME DELAY.
- C. CONTRACTOR SHALL TEST AND VERIFY EACH CURRENT LOOP WITH MEG-METER TO DETERMINE LOOP INTEGRITY.

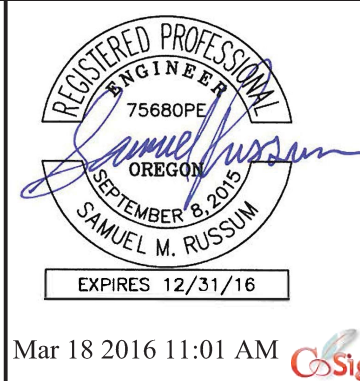
NOTES THIS SHEET

- 1 SERIES CUT-OUT PLUG, TYPE S-1.
- 2 VERIFY REGULATOR CONTROL WIRING WITH SELECTED REGULATOR MANUFACTURER.
- 3 VERIFY RADIO CONTROLLER WIRING WITH SELECTED RADIO MANUFACTURER.
- 4 CT SIZE SHOWN IS COMBINED WATTAGE OF 2 OR MORE CURRENT TRANSFORMERS REQUIRED FOR EQUIPMENT OPERATION. COORDINATE SPECIFIC REQUIREMENTS WITH EQUIPMENT MANUFACTURER.
- 5 PROVIDE NEW 8 AWG 5KV, UNSHIELDED CABLE FOR CONNECTION OF NEW RUNWAY LIGHTING EQUIPMENT.
- 6 PROVIDE NEW PAPI LIGHTING CONTROL PANEL IN NEMA 1 RATED ENCLOSURE.
- 7 RE-USE EXISTING PAPI 8 AWG 5KV, UNSHIELDED CABLE.

SEE CONTINUATION
ON SHEET E-17

R&W
ENGINEERING, INC.
"Engineering Integrated Solutions"
Project No.: 132.056.001 Contact: SAM RUSSUM

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Suite 107
Beaverton, Oregon 97005
Phone: (503) 726-3311
Fax: (503) 726-3326
E-mail: rweng@rweng.com



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NO.	DATE	BY	APPR	REVISIONS

CENTURY WEST
ENGINEERING

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DATE: MARCH 2016 PROJECT NO: 40228.008.03

DESIGNED BY: SMR
DRAWN BY: R&W
CHECKED BY: JLH
SCALE: AS NOTED

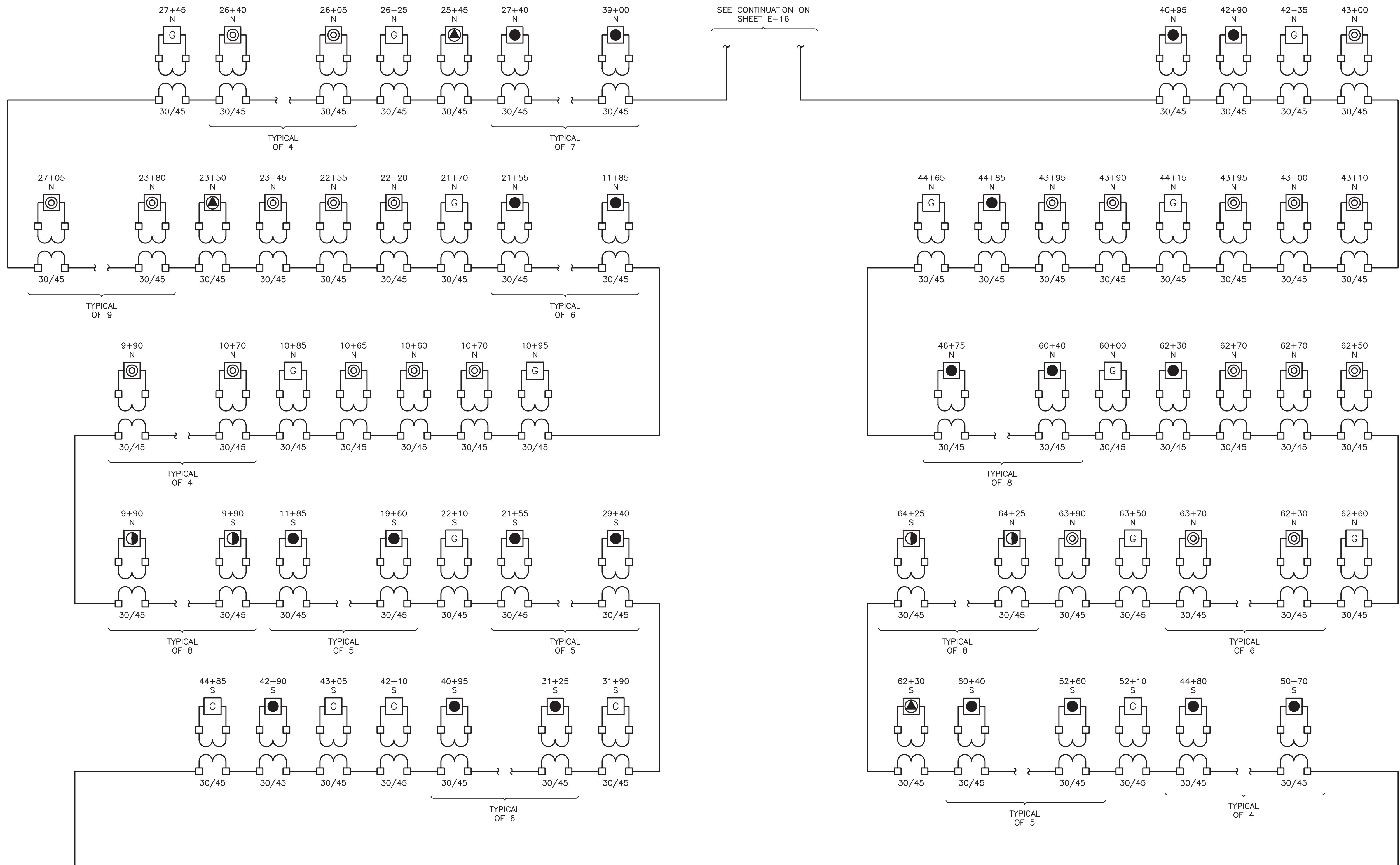
CITY OF MCMINNVILLE
MCMINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

RUNWAY LIGHTING CONTROL
LOOP DIAGRAM

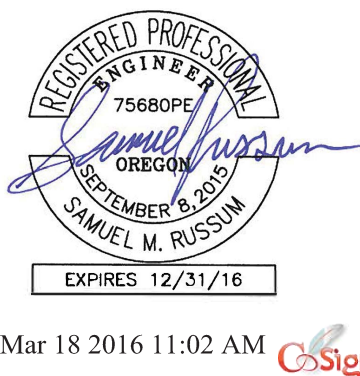
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E-16

SHEET NO.
78 OF 80

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1
E-17 RUNWAY LIGHTING LOOP DIAGRAM
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CITY OF MCMINNVILLE
MCMINNVILLE MUNICIPAL AIRPORT
RUNWAY 4-22 REHABILITATION PROJECT

RUNWAY LIGHTING LOOP DIAGRAM

DRAWING NO.
E-17
SHEET NO.
79 OF 80

